EIGHTY-FOURTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1909

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the Superintendent.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

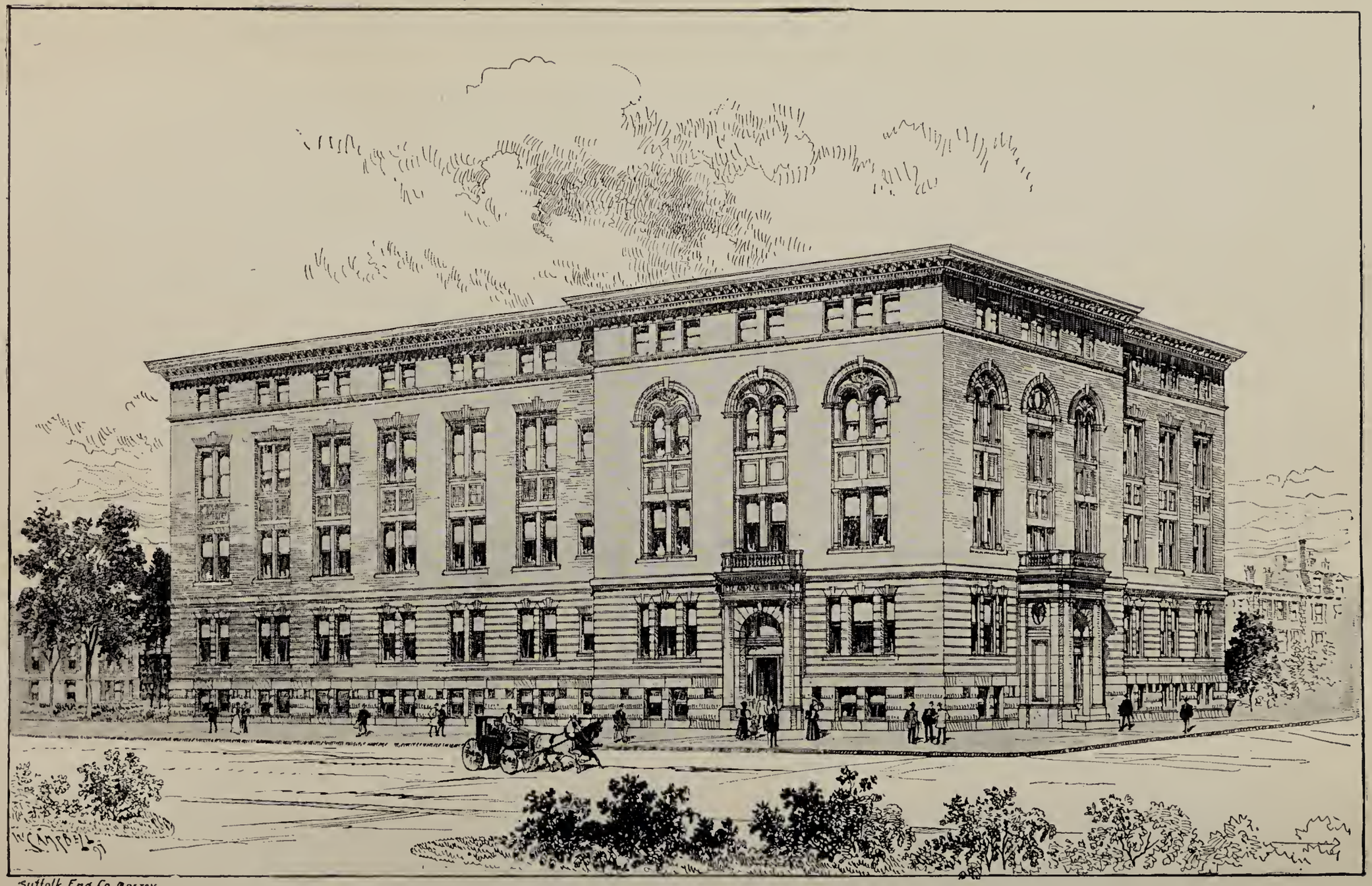
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call especial attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy,** and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-FOURTH ANNUAL REPORT

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MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1909

BOSTON
GEO. H. ELLIS CO., PRINTERS, 272 CONGRESS STREET
1910

OFFICERS

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

BOARD OF MANAGERS, 1909-1910.

AUGUSTUS HEMENWAY.
Feb. 5, 1878.

GEORGE P. GARDNER.
Feb. 1, 1887.

HENRY PARKMAN.
May 2, 1893.

* WILLIAM D. SOHIER.
Jan. 7, 1896.

WILLIAM H. SEABURY.
Oct. 27, 1898.

ROBERT HOMANS.
May 1, 1900.

WILLIAM S. SPAULDING.
Feb. 4, 1902.

DR. GEORGE B. SHATTUCK.
Oct. 30, 1902.

WILLIAM C. ENDICOTT.
Feb. 3, 1903.

RUSSELL G. FESSENDEN.
Feb. 3, 1903.

HERBERT M. SEARS.
Dec. 20, 1905.

CHARLES P. CURTIS.
Feb. 5, 1907.

ROBERT H. STEVENSON, JR.
Feb. 5, 1907.

* JOHN LAWRENCE.
Feb. 5, 1907.

President.

DR. GEORGE B. SHATTUCK.

Secretary.

ROBERT HOMANS, 1035 EXCHANGE BUILDING, 53 STATE STREET, BOSTON.

Treasurer.

HENRY PARKMAN, 53 STATE STREET, BOSTON.

Executive Committee.

GEORGE P. GARDNER. WILLIAM H. SEABURY.
HERBERT M. SEARS.

Finance Committee.

WILLIAM S. SPAULDING. WILLIAM C. ENDICOTT.
RUSSELL G. FESSENDEN.

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* Appointed by the Commonwealth.

Visiting Committees.

January,	Mr. SEABURY.	July,	Mr. PARKMAN.
	Mr. HEMENWAY.		Mr. STEVENSON.
February,	Mr. HEMENWAY.	August,	Mr. STEVENSON.
	Dr. SHATTUCK.		Mr. CURTIS.
March,	Dr. SHATTUCK.	September,	Mr. CURTIS.
	Mr. SPAULDING.		Mr. FESSENDEN.
April,	Mr. SPAULDING.	October,	Mr. FESSENDEN.
	Mr. HOMANS.		Mr. ENDICOTT.
May,	Mr. HOMANS.	November,	Mr. ENDICOTT.
	Mr. SEARS.		Mr. GARDNER.
June,	Mr. SEARS.	December,	Mr. GARDNER.
	Mr. PARKMAN.		Mr. SEABURY.

SURGICAL BOARD.

Consulting Surgeons.

HASKET DERBY, M.D.
HENRY L. SHAW, M.D.
SAMUEL J. MIXTER, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
J. ORNE GREEN, M.D.
CLARENCE J. BLAKE, M.D.
OLIVER F. WADSWORTH, M.D.
LINCOLN DAVIS, M.D.

Ophthalmic Surgeons.

H. BECKLES CHANDLER, M.D.
MYLES STANDISH, M.D.
FREDERICK E. CHENEY, M.D.
EDWIN E. JACK, M.D.
ALEXANDER QUACKENBOSS, M.D.
HENRY H. HASKELL, M.D.

Aural Surgeons.

FREDERICK L. JACK, M.D.
EDWARD M. PLUMMER, M.D.
EUGENE A. CROCKETT, M.D.
PHILIP HAMMOND, M.D.

Assistant Ophthalmic Surgeons.

EDMUND W. CLAP, M.D.
FRED M. SPALDING, M.D.
A. GARDNER MORSE, M.D.
ELWOOD T. EASTON, M.D.
FREDERICK H. VERHOEFF, M.D.
ROBERT G. LORING, M.D.

Assistant Aural Surgeons.

GEORGE A. WEBSTER, M.D.
D. HAROLD WALKER, M.D.
HARRIS P. MOSHER, M.D.
ALFRED M. AMADON, M.D.
WILLIAM F. KNOWLES, M.D.
GEORGE H. POWERS, Jr., M.D.
GEORGE L. TOBEY, Jr., M.D.

Junior Assistant Ophthalmic Surgeons

CHARLES D. JONES, M.D.
PETER H. THOMPSON, M.D.
SAMUEL J. McDONALD, M.D.
GEORGE S. DERBY, M.D.
W. HOLBROOK LOWELL, M.D.
GEORGE H. RYDER, M.D.

Ophthalmic Clinical Assistants.

EDWARD K. ELLIS, M.D.
P. SOMERS SMYTH, M.D.
MINOT F. DAVIS, M.D.
EDWARD D. HURLEY, M.D.
RALPH A. HATCH, M.D.
HENRY HAWKINS, M.D.
J. J. CORBETT, M.D.

Aural Clinical Assistants.

FRANCIS P. EMERSON, M.D.
BERTRAM H. CASWELL, M.D.
DANA W. DRURY, M.D.
CALVIN B. FAUNCE, Jr., M.D.
PERCY C. PROCTOR, M.D.
TIMOTHY J. SHANAHAN, M.D.
FREDERICK L. BOGAN, M.D.
JOHN H. BLODGETT, M.D.
WM. W. HENNESSEY.

Pathologist.

FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.

JAMES J. PUTNAM, M.D.

Consulting Physicians.

THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
ROGER I. LEE, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.

ROSS E. SAVAGE, M.D. HORATIO W. PRATT, M.D.

Ophthalmic Externe.

HENRY G. CARROLL. M.D.

Aural House Surgeons.

GORDON BERRY, M.D. D. CAMPBELL SMYTH, M.D.

Aural Externe.

F. NOLTON BIGELOW, M.D.

EXECUTIVE OFFICERS.

Superintendent.

FARRAR COBB, M.D.

Matron and Superintendent of Nurses.

MARY COONAHAN.

Apothecary.

HOWARD W. MORSE.

Assistant to the Superintendent.

JOHN G. SCHROEDER.

Assistant Matron.

HARRIET L. HARRIS.

Supervisor.

MITCHELL A. DEARBORN.

Opticians.

ANDREW J. LLOYD COMPANY.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The year of 1909 has been one of the most important in the history of the Infirmary, because in this year by the construction of new buildings and alterations in the old the capacity of the institution for treating patients in the wards has been increased one-third, or by 50 additional beds, and also on account of the continued successful development of the newer departments in hospital work, the Social Service Department, the Tuberculosis Clinic, the work in Contagious Ophthalmia, and the Department of Pathology.

The Board of Managers feel that the institution at the present time, with the additional capacity for carrying on its great charitable work, should be, more than ever before, an object of special interest to the people of the City and State. In all probability, however, the majority of persons in the community have little realization of the enormous charitable work done by the Infirmary annually since its organization in 1827. It is the hope of the Board that all who read this report, which marks a decided landmark in the history of the institution, will be interested in the work sufficiently to examine into it and help by contributions of money. And, in presenting this report, the Managers are compelled to make an urgent appeal for funds to enable them to care for the large numbers of poor and deserving patients as well as they have in the past. There is special need of financial aid now because

of the increased number of house patients that must be taken care of in the new wards and operating-rooms.

For the past ten years constantly increasing numbers of poor patients have been treated,—patients too poor to pay for special treatment,—and it has been so impossible to meet the demands of these worthy patients that annually for the last five years two or three hundred non-emergency cases have had to be refused treatment in the wards. It is hoped that with the additional beds all those needing treatment can be accommodated for the present. The Managers feel sure that an investigation of the work of the institution will convince any person interested that nowhere is a greater benefit secured to the community for the same amount of money.

Because of this year 1909 being an epoch year in its history, a few facts in regard to the history of the institution and its work should be published. The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear. It is the second oldest hospital in New England. It is the fourth oldest special hospital of its kind in the world. At present with its capacity of 210 beds for ward patients, its out-patient clinic, its special building for the treatment of contagious opthalmia and its Pathological Building and Nurses' Home, it is the largest hospital for the treatment of diseases of the eye and ear in the world.

Ever since it was founded, it has afforded the best treatment to poor people who without its aid would have been unable to earn a livelihood.

The work has increased year by year, as the population in the city, State, and other New England States has increased.

The following statistics of the number of patients treated will be of interest, and these figures should be multiplied by three or four to show the total attendance of patients, old and new, out-patients and house patients, who pass through its various departments in a year:—

In 1849 the number of new patients treated in the wards and Out-patient Department was 2,002.

1877	9,087	1897	21,594
1890	15,289	1909	31,618

The patients treated in the wards in

1900	2,180	1909	3,115

In March, 1899, the new hospital building on the corner of Charles and Fruit Streets, with a capacity of 160 beds, was completed. At that time it seemed that accommodation for the proper treatment of applicants would be sufficient for twenty years, but this building had been in use no more than five years when it became apparent that the demands of the deserving poor of the city and State could not be met.

A year ago the Board of Managers had called to their attention by the Surgeons and Superintendent the important need of more beds and more room for the proper treatment and care of patients, also the need of treating patients out of doors. Accordingly, the Managers were compelled to provide increased facilities, and, to do this, the past year they have erected a Nurses' Home, four stories in height, on land owned by the Infirmary on the corner of Charles and Cambridge Streets overlooking the Charles River Basin and the new boulevard. This building is large enough to properly house about one hundred nurses and domestic servants. The building has been occupied by the nurses and servants since the 1st of August last.

Upon the completion of this building it was possible to alter the top floor of the hospital building, which formerly had been occupied by the nurses and servants, so as to provide for 50 more beds in wards and rooms for patients with the much-needed operating and treatment rooms.

The adaptation of the roof of the main building as a roof garden for the outdoor treatment of patients was carefully

considered, but had to be postponed on account of lack of money. Such a roof garden would cost $10,000, and its construction would be of the greatest benefit in enabling us to give what is now considered almost a necessity in the hospital treatment of disease; namely, fresh air and sunlight in excess and for hours each day. The Managers hope that some person may see fit to give the needed amount for this special purpose.

The Pathological Department of the Infirmary under the care of its salaried pathologist, Dr. Verhoeff, has been housed in a separate building, constructed on the north hospital grounds. This laboratory is a complete building in itself, and will give much-needed facilities for research and teaching. The Managers have recognized the importance of this department from the point of productive scientific work and investigation, and feel that the importance of a proper pathological laboratory in relation to disease and its proper treatment cannot be exaggerated. They earnestly ask for a special endowment fund to carry on this work.

The Board of Managers feel that renewed attention should be called to the greatest work of the Infirmary; namely, the care of cases of contagious ophthalmia in the special building, especially the cases occurring in infancy. This work is of the utmost value sociologically It saves the community and the Commonwealth annually a large amount of money in the prevention of blindness. The Gardner Building for the treatment of these contagious diseases of the eye is the largest and most important special building for this work of any known institution. During the year we have treated 262 cases in this building, 131 of which were infants under one and one-half years of age. This building is a separate structure, three stories high, with a capacity of 25 beds and facilities for isolation. The cost of maintenance of this difficult department during the past year was in the neighborhood of $10,000. A detailed report of this special work will be found in the report of the Superintendent. One of the most important parts of

the work of the Social Service Department, to which department attention will be called later, has been in the following up of the cases of contagious ophthalmia, especially in infants, after they were discharged from the institution.

The fiscal year ending Sept. 30, 1909, was one of the busiest in the history of the institution. The total number of patients admitted to the wards was 3,115, of which number 1,391 were children under fourteen years of age. The daily average number of house patients was 133.

48,428 days' board was furnished to patients, of which 12,313 was paid or partially paid and 36,115 was absolutely free.

The total attendance in the Out-patient Department was 67,054, of which 28,503 were new patients.

The total cost of maintenance for the year was $90,675,52. The per capita cost per house patient was $12.95. It has never been possible to meet the cost of maintenance of the institution and satisfy the demands of the community without an annual deficit which sometimes has been large. Each year it has been more difficult to find the necessary funds to pay the cost of caring for the large number of applicants. Curtailing the work of the institution would inflict hardship and suffering in the ever-increasing number of poor and needy. Injuries to the eye and severe cases of mastoid disease take from the poor man willing to work the ability to maintain himself and family, and the aim of the Infirmary is to restore him to a state of self-support.

The Board of Managers wish to again acknowledge the great importance of the work of the Social Service Department of the institution. It is beginning its third year's work in charge of Miss Brannick, with the financial assistance of devoted friends outside of the institution, specially interested in this work, and in the prevention of blindness in the community. During the past year a Tuberculosis Class has been started in connection with this department, with the co-opera-

tion of the Ophthalmic Staff and under the medical direction of Dr. George S. Derby and Dr. Theodore J. Eastman. By the work of this class it has been fully demonstrated that many eyes can be saved that without such observation and treatment would be lost. It is recognized by the Managers that, when sufficient endowment for this work can be obtained, this department should be a recognized and formal part of the hospital policy and expense. No greater good can be done among the poor than by following up cases of disease and destitution after they are discharged from the hospital, and no better use of special funds could be made than in furthering the maintenance of this department.

Because the Managers felt that the work of the institution is of the greatest importance to the Commonwealth and the community, they decided to enlarge the institution as above described, recognizing fully, however, that with the enlargement of the institution and the extra amount of work that will be done the cost of maintenance will be greatly increased. It is estimated that at least fifteen thousand dollars a year increased expenditure must be reckoned with in the future. Therefore, at the present time the Board feels that this great institution and its great work can deservedly make a most urgent appeal for financial assistance.

The Managers desire to acknowledge the following gifts received during the year:—

Gift of George Dexter	$100.00
Gift of F. W. Hunnewell	100.00
Gift of "J. S. F."	25.00

C. P. CURTIS,
R. H. STEVENSON, Jr.,
Committee of the Board of Managers.

NURSES' HOME.

Opened August 5, 1909.

REPORT OF THE TREASURER.

INCOME RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1909.

INCOME.

RECEIPTS:		
Income from investments		$29,908.27
Appropriation from State		35,000.00
Rebate on bank tax		76.36
Income from trustees, will of E. V. Ashton		1,600.00
Income from estate of Robert B. Brigham		1,000.00
Gifts		225.00
Sale of old building material		426.00
Premiums on bonds sold		275.00
Rent of Warren Avenue, Somerville		221.55
From Superintendent, as per his report:		
Board of patients	$7,125.41	
Out-patient visits	6,297.00	
Medicines	8,035.05	
Opticians' account	4,361.80	
Sundries	776.31	
		26,595.57
		$95,327.75
Excess of expenditures over receipts		1,332.71
		$96,660.46

EXPENDITURES.

Running expenses per account of Superintendent		$90,675.52
Additional expenses, per account of Treasurer:		
City of Boston, taxes Old Infirmary	$1,618.65	
City of Somerville, taxes 15 Warren Avenue	71.32	
Insurance premiums	2,561.25	
Attorney fees, examination of deeds, etc.	205.00	
Accrued interest on notes and bonds purchased	422.31	
Printing and postage	296.79	
Sundries	592.62	
Care Old Infirmary	217.00	
		5,984.94
		$96,660.46

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,115.

Of the 3,115 house patients, 1,810 were males and 1,305 were females.

Number of patients treated in Ophthalmic Wards . .	1,396
Number of patients treated in Aural Wards	1,719

Of this number 249 were treated in the Gardner Building for contagious diseases. 131 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average number of patients treated in this building was 14.

Of the total number of patients treated in the wards 1,391 were children under fourteen years of age.

The daily average number of patients treated in the wards was 133.

The largest number of house patients treated on any one day was 156; the smallest number, 95.

Number of free patients admitted	1,871
Paying patients at $7 per week	102
Paying patients at more than $7 per week	534
Paying patients at less than $7 per week	464
Patients remaining in wards Sept. 30, 1908	143

The average rate paid per week per pay patient was $6.68.

The average stay per patient in the hospital under treatment was 12 days.

During the year 822 patients were refused admission for

want of accommodation. Of this number 572 were subsequently admitted.

48,428 days' board was furnished to patients. 12,313 days' was paid, and 36,115 was free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,132	Vermont	17
Mass. (excepting Boston)	1,844	Rhode Island	5
Maine	21	Other States	3
New Hampshire	82	Other countries	11
			3,115

OCCUPATIONS OF HOUSE PATIENTS.

MALES.

Agents	7	Painters and glaziers	25
Bakers	10	Pedlers	20
Barbers	8	Porters	12
Blacksmiths	19	Policemen	2
Bookbinder	1	Photographer	1
Book-keepers	2	Physicians and dentists	6
Butchers	5	Plumbers and steam-fitters	7
Carpenters and wood-workers	41	Printers and compositors	9
Chauffeurs	4	Proof-readers	2
Clergymen	4	Railroad employees	31
Clerks	32	Roofers	3
Coachmen and hostlers	11	Salesmen	7
Cooks	5	Seamen and fishermen	10
Electricians	7	Shippers	4
Engineers	12	Shoemakers	20
Engraver	1	Soldiers	2
Farmers	37	Stone-cutters	24
Firemen	11	Storekeepers	3
Gardeners	5	Tailors	10
Janitors	5	Teacher	1
Laborers	253	Teamsters	40
Letter-carrier	1	Telegraph operator	1
Machinists	35	Waiters	5
Masons	11	Watchmen	3
Metal workers and moulders	18	Unclassified	6
Mill and factory operatives	127	Minors	878
Musicians	2		1,810
Nurse	1		

FEMALES.

Agent	1	Pedler	1
Bookbinders	2	Saleswomen	6
Clerks	9	Stenographers	7
Compositor	1	Teachers	7
Domestics	107	Telephone operator	1
Dressmakers and seamstresses	25	Waitresses	4
Housewives	263	Minors	803
Mill and factory operatives	55		1,305
Nurses	13		

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

2,100 were well.
642 were relieved.
90 were not relieved.
55 left against advice.
23 were not treated.
57 died.
2 eloped.
22 were transferred to other hospitals for other diseases.
124 remaining in hospital Sept. 30, 1909.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 926 operations performed in the house, and 1,574 in the Out-patient Department.

In the Aural Departments there were 1,490 operations performed in the house, and 2,265 in the Out-patient Department.

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 262 cases were treated in the special wards of the Gardner Building. Of these there were 123 cases of gonorrhœal ophthalmia, 16 occurring in adults, 3 in children, and 104 in infants soon after birth. There were 58 cases of purulent ophthalmia, non-gonorrhœal: 7 of these were in adults, 16 in children, and 35 in infants. At the time of entrance the cornea was involved in 23 cases of gonorrhœa, of which 5 were adults, 6 children, and 12 infants. The cornea became involved in but 4 after admission: 2 of these were adults, and 2 infants.

Saemisch's operation was performed 3 times.

9 cases of specific iritis with active secondary lesion of the disease were treated. There were also 8 cases of trachoma, 4 cases of acute conjunctivitis, and 9 cases of phlyctenular conjunctivitis, 7 of ulcerative keratitis, and 4 of interstitial keratitis.

40 cases were transferred to the Gardner Building for measles, scarlet fever, pertussis, erysipelas, and other infectious diseases which manifested themselves in the general wards of the hospital.

OUT-PATIENT DEPARTMENT.

New patients treated:—

Ophthalmic:	Males	10,791	
	Females	8,584	
			19,375
Aural:	Males	5,182	
	Females	3,946	
			9,128
	Total		28,503

Number of old patients treated in the Out-patient Department was:—

Ophthalmic	20,153	
Aural	18,398	
		38,551
Total visits in Out-patient Department		67,054

RESIDENCES OF OUT-PATIENTS.

Boston	13,564	Vermont	16
Mass. (excepting Boston)	14,744	Rhode Island	9
Maine	43	Connecticut	2
New Hampshire	125		28,503

OCCUPATIONS OF OUT-PATIENTS.

Actors	10	Mill and factory employees	3,479
Agents	57	Moulders	35
Artists	20	Musicians	39
Barbers	132	Nurses	78
Bakers	83	Painters	430
Blacksmiths	152	Pedlers	452
Bookbinders	92	Pensioners	52
Book-keepers	76	Photographers	68
Butchers	64	Physicians	22
Carpenters	416	Plumbers	125
Clergymen	13	Policemen and letter-carriers	54
Clerks	1,210	Porters	255
Coachmen and hostlers	101	Railroad employees	577
Compositors and printers	131	Soldiers	71
Domestics	942	Seamstresses	445
Draughtsmen	12	Shoemakers	688
Electricians	125	Stenographers	117
Engineers	110	Stone-cutters	261
Engravers	88	Storekeepers	75
Farmers	197	Students	96
Firemen	143	Tailors	521
Fishermen and seamen	104	Teachers	51
Hotel and lodging-house keepers,	134	Teamsters	554
Housewives	3,396	Telephone and telegraph operators	153
Laborers	1,694	Waiters	404
Lawyers	4	Wood-workers	441
Masons	52	Unclassified	1,348
Messengers	43	Minors	7,132
Machinists	825		28,503
Milliners	54		

EXPENDITURES FOR 1909.

The total expenditure by the Superintendent has been $90,675.52, which is itemized as follows:—

Provisions		$17,828.19
Meat, fish, and poultry	$5,850.55	
Fruit and vegetables	2,267.85	
Bread and flour	1,185.08	
Milk	2,590.98	
Groceries	3,003.51	
Butter and eggs	2,930.22	
Wines, liquors, and alcohol		565.06
Water rates		1,345.35
Soap		623.61
Gas		313.10
Ice		891.30
Heat, light, and power		5,216.60
Fuel (kitchen)		469.50
Medicines and dispensary		4,978.71
Furniture		115.57
Stationery and printing		813.81
Wages		41,703.43
Officers	9,399.98	
Clerks (Superintendent's office, Out-patient Department, and telephone)	2,329.00	
Engineers	1,195.00	
Carpenters and painters	2,179.50	
Laboratory assistant	525.00	
Ward masters, orderlies, and porters	8,242.94	
Apothecary assistant	808.00	
Elevator man	300.00	
Head and operating-room nurses	3,542.51	
Etherizing nurse	354.00	
Post-graduate nurses	1,109.40	
Special nurses	1,258.02	
Attendant nurses	4,288.07	
Housekeepers	400.16	
Kitchen and dining-room employees	2,046.35	
Laundresses	1,670.34	

NURSE'S ROOM

General women	1,676.02	
Seamstresses	274.14	
Janitor	105.00	
Optical and surgical instruments and repairs		982.83
Spectacles and eye-glasses furnished free to wards of the State of Massachusetts		519.90
Repairs and improvements		4,132.70
Plumbing	579.38	
Laundry	127.33	
Steam plant	316.98	
Electric plant	307.98	
Sterilizing apparatus	81.20	
Carpentering	338.76	
Painting and glazing	326.52	
Kitchen cooking apparatus and new bakery oven,	340.73	
Elevator	121.28	
Furniture and bedding	585.06	
Locks, keys, and hardware	113.64	
Care of ward floors	185.00	
New surgical dressing sterilizer	291.00	
Plastering	235.00	
Roofing	57.06	
New typewriter	112.50	
Cleaning	13.28	
House, ward, and surgical supplies		8,415.32
Kitchen and dining-rooms	148.00	
Linen-room	1,236.87	
Surgical and ward supplies	5,721.30	
Laundry supplies	144.25	
Bacteriological laboratory supplies	65.67	
General supplies	304.04	
Uniforms:		
Doctors	110.00	
Orderlies	384.06	
Patients	301.13	
Contingent and sundries		1,760.54
Sundries and training school	315.09	
Surgeons' library	120.00	
Nurses' library	8.62	
Postage and express	258.14	
Telephone	654.15	
Laboratory	15.75	
Advertising	107.50	
X-ray plates (Mass. General Hospital)	$180.39	
Office	100.90	

The value of stock on hand Oct. 1, 1909, was:—

House and surgical supplies	$4,653.27	
Drugs and medicines	2,594.90	
Provisions	480.70	
	$7,728.87	
The value of stock on hand Oct. 1, 1909, was		$7,728.87
The value of stock on hand Oct. 1, 1908, was		6,912.51
		$816.36

Deducting the difference in value of stock on hand Oct. 1, 1909, $816.36, and Oct. 1, 1908, gives the cost of maintenance per house patient per week as $12.95. The cost of maintenance per inmate per week was $7.63. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $17,828.19.

The daily average number of patients was 133; of officers and employees, including house and nursing staff, 95; or a total daily average of 228 persons. The number of weeks' board of all persons was 11,888, and the weekly cost per person for uncooked food supplies was $1.50, or 21 cents per day.

LIVING ROOM. NURSES' HOME.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 144 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, Throat, and Brain, Clinical Diseases and Surgery of the same, Refraction, Aural and Ophthalmic Nursing, and special nursing of Brain Abscess, and the Ear in Art and History. 8 lectures were given on the Hospital Formulary, 3 on Contagious Diseases, and 4 on the Care of Infants. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, and the preparation of infants' food.

The number of post-graduate and pupil nurses taking the course was 18. 15 graduates received the diploma of the school. 40 applications for the course were received during the year.

In addition to the regular special training, instruction in hospital management has been inaugurated. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head nurses. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1900, to Oct. 1, 1909, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-patients Aural.*	*Total.*
1900	1,569	611	19,435	6,812	28,427
1901	1,538	840	21,880	7,170	31,428
1902	1,483	750	22,839	7,180	32,252
1903	1,548	975	23,614	7,876	34,013
1904	1,546	1,269	23,943	8,782	35,540
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,353	8,213	34,482
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
Totals .	15,494	11,943	223,062	82,448	332,947

A total of 305,510 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 916,530.

Respectfully submitted,

FARRAR COBB, M.D.,

Superintendent.

REPORT OF THE FULL BOARD OF SURGEONS.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—The past year has seen many changes and improvements at the Infirmary, although the present building has been occupied only a little over ten years. Two new buildings have been added, the Nurses' Home, a model structure of its kind, and a pathological laboratory. The completion of these two buildings, and the turning into wards and operating-rooms of the top floor of the Infirmary, will add greatly to the working capacity of the hospital.

The Aural Department, especially, looks forward to the opening of these wards to relieve a condition that has existed for the past few years. The increasing number of operations on the nose and throat, requiring a stay in the hospital of but a day or two, has taxed the present accommodations to such an extent, that at the present time there is a waiting list of nearly three hundred, many of whom are children.

The Ophthalmic Department wishes to express its appreciation of the efforts that are now being made to relieve the vision-room of the large number of unfits. The past two years shows a marked falling off in the number of vision cases, and the Staff feels confident, that a continuation of the same policy will still further reduce the number of persons seeking aid in this department.

Another change which we note with pleasure is the opening of a Tuberculosis Class, which was started during the early

part of the present year. Although it has been running but a short time, it is of great assistance to the Staff, and of still greater value to an increasing number of worthy patients.

For the Full Board of Surgeons,

FREDERICK L. JACK.
ALEXANDER QUACKENBOSS.

Oct. 21, 1909.

PATHOLOGICAL LABORATORY.

(Gardner Building in Background.)

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—The past year has been made notable for the Pathological Department by the abandonment of the old laboratory and the erection of a new laboratory building, complete in itself, adjoining the Infirmary. This building, which is now ready for occupancy, will add greatly to our facilities. Instead of a single room we now have four rooms, two working laboratory rooms on the upper floor and two rooms in the basement for animals, storage, etc. An important advantage of the new building will be its accessibility, especially to the out-patient eye clinic, so that the bacteriological work of the latter department may now be done in the laboratory itself.

While the erection of the new building is a cause for great satisfaction, the need of an adequate endowment, to which attention has been called in previous reports, will no doubt now be still more apparent than ever before. Large sums are expended to furnish treatment for patients suffering from diseases of the eye and ear, but, inconsistently enough, comparatively no funds are provided for investigations into the nature, cause, or prevention of the various diseases, or for investigations through which better methods of treatment might be ascertained. During the past year the lack of an endowment was brought home to us by the fact that we were unable to retain the services of an investigator of unusual promise.

Publications:—

"Some General Considerations concerning Tuberculosis of the Eye." F. H. Verhoeff, *Ophthalmic Record*, 1908.

"The Differentiation of the Diphtheria Bacillus from Organisms Morphologically Similar." C. Fisher, *American Ophthalmological Transactions*, 1909.

"Neuropathic Keratitis and Some Allied Conditions." F. H. Verhoeff, *Journal American Medical Association*, 1909.

"Amaurotic Family Idiocy: Histological Examination of a Case in which the Eyes were removed immediately after Death." F. H. Verhoeff, *Archives of Ophthalmology*, 1909.

FREDERICK H. VERHOEFF,

Pathologist.

Oct. 21, 1909.

INTERIOR PATHOLOGICAL LABORATORY.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.

Conjunctivitis:	
acute	6
chronic	1
follicular	3
gonorrhœal:	
in adults	16
in children	3
in infants	104
phlyctenular	18
purulent:	
in adults	7
in children	16
in infants	5
spring	3
trachomatous	26
with pannus	19
Cicatrix	2
Lupus	1
Laceration of conjunctiva	2
Pemphigus	1
Pterygium	4
Symblepharon	7
Xerosis	5
Tumor:	
epithelioma	1
melanotic sarcoma	1
Total	251

Cornea.

Abscess	13
Foreign body	4
Keratitis	10
bullous	2
dendritic	5
fascicular	2
interstitial	31
neuropathic	28
phlyctenular	68
superficial	7
syphilitic	2
traumatic	5
tubercular	3
ulcerative	90
with hypopyon	67
with perforation	3
Kerato-iritis	5
Kerato-scleritis	5
tubercular	9
Leucoma	6
adherent	6
inflamed	7
Staphyloma	15
with prolapsed iris	1
Epithelioma	1
Kerato-conus	1
Total	396

Glaucoma.

Absolute	8
Acute	21
Chronic	36
Secondary	11
Simplex	1
Hydrophthalmos	3
Hemorrhagic	7
Total	87

Globe and Orbit.

Abscess of orbit	2
Angioma of orbit	1
Abscess of brow	1
Contracted orbit	1
Dermoid cyst	1
Disorganized globe	11
Exophthalmos	3
orbital hemorrhage	1
Injury to brow	2
Panophthalmitis	7
Phthisis bulbi	21
Sympathetic ophthalmia	7
Tumors:	
carcinoma	1
sarcoma	4
gumma	4
Cysts of orbit	4
Total	71

Injuries.

Burns:	
cornea	21
conjunctiva	7
conjunctiva and cornea	11
conjunctiva and lids	2
cornea and lids	3
Non-penetrating:	
globe	24
with exophthalmos	1
with hyphæmia	2
with irido-dialysis	2
Lids	3
Penetrating:	
cornea	47
with foreign body	21
and prolapsed iris	8
with prolapsed iris	7
ciliary region	27
with foreign body	1
cornea and iris	17
with foreign body	1
cornea and lens	17
cornea, iris, and lens	30
with foreign body	4
hemorrhage into vitreous	2
lid, cornea:	
with prolapsed iris	5
sclera	21
with foreign body	11
Laceration of lids	2
Total	297

Iris, Choroid, and Ciliary Body.

Angioma	1
Blocked pupil	26
Disseminated choroiditis with vitreous opacities	1
Iritis:	
gonorrhœal	1
neuropathic	13
rheumatic	26
simple	16
with hypopyon	6
syphilitic	41
traumatic	8
tubercular	1
Irido-cyclitis	11
Sarcoma of choroid	1
Carcinoma metastatic	1
Uveitis	5
Irido-dialysis	5
Choroiditis	2
Coloboma congenital	2
Total	167

Lachrymal Apparatus.

Abscess	13
Dacryo-cystitis:	
acute	18
chronic	28
chronic with fistula	2
with fracture lachrymal bone	1

Lachrymal obstruction	1
Conjunctiva lachrymal fistula,	1
New growth	1
Total	65

Lens.

Cataract:	
capsular	53
congenital	61
hypermature	15
immature	133
mature	207
pre-senile	1
traumatic	43
Dislocated lens:	
into anterior chamber	6
into posterior chamber	5
High myopia	5
Total	529

Lids.

Abscess	11
Cicatrix	2
Ptosis	3
congenital	3
Cyst	1
dermoid	2
Ectropion	12
Entropion	11
Epithelioma	8
Trichiasis	12
Chalazion	2
Wens	3
Total	70

Miscellaneous.

Bronchitis, acute	1
Carcinoma of face	5
Delirium tremens	5
Diabetes	6
Diphtheria	2
Ethmoiditis	1
Erysipelas, facial	2
Frontal sinuritis	2
Influenza	1
Measles	6
Mitral insufficiency	1
Myocarditis	2
Pertussis	1
Pneumonia, broncho	1
Tabes dorsalis	1
Scarlet fever	8
Syphilis:	
acquired	4
congenital	2
Total	51

Muscle and Nerve Affections.

Exo-hyperphoria	2
Herpes zoster ophthalmicus	4
Paralysis of abducens	1
Paralysis of motor oculi	1
Strabismus:	
convergent	36
divergent	12
Nystagmus	3
Tenonitis	4
Hyperphoria	1
Total	64

Optic Nerve.

Optic atrophy	5
Neuritis:	
optic	5
retrobulbar	2
Amblyopia, congenital	1
hysterical	1
toxic	1
Amaurosis	1
Total	16

Retina.

Retina separated	17
Obstruction central artery	1
Pseudo-glioma	1
Glioma	3
Retinitis groleferum	2
Total	24

Sclera.

Rupture	2
Scleritis, tubercular	6
Staphyloma	2
Total	10

Summary.

Conjunctiva	251
Cornea	396
Glaucoma	87
Globe and orbit	71
Injuries	297
Iris, choroid, and ciliary body,	167
Lachrymal apparatus	65
Lens	529
Lids	70
Miscellaneous	51
Muscle and nerve affections	64
Optic nerve	16
Retina	24
Sclera	10
Total	2,098

OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Pterygium	2
Stripping	16
Suturing	1
Symblepharon	4
Total	23

Cornea.

Cauterizing kerato-conus	2
Paracentesis	8
Saemisch	22
Section for foreign body	4
Total	36

Enucleations.

Disorganized globe	17
Glaucoma absolutum	14
Injury	27
Irido-cyclitis	3
Iritis	2
Panophthalmitis	6
Phthisis bulbi	14
Staphyloma	8
Sympathetic ophthalmia	3
Tumor of globe	6
Total	100

Evisceration.

Simple	6
insertion glass ball	7
Total	13

Iris.

Iridectomy	32
glaucoma	19
optical	18
anterior synechiæ	1
Iridotomy	2
Prolapsed iris abscised	27
Replaced	1
Total	100

Lachrymal Apparatus.

Abscess evacuated	8
Curettage of sac	3
Extirpation of sac	28
Probing of duct	3
Total	42

Lids.

Abscess evacuated	8
Ectropion	7
Entropion	5
Green's	2
Plastic	14
Ptosis:	
Pagenstecher	2
Panas	2
Tumor excised	2
Wound sutured	4
Total	46

MISCELLANEOUS.

Adenectomy	2
Foreign body in anterior chamber	2
Lagrange operation	3
Magnet test	24
removal of intra-ocular steel	41
Total	72

MUSCLES.

Advancement:	
external rectus	34
internal rectus	11
Tenotomy:	
external rectus	13
internal rectus	32
Total	90

ORBIT.

Abscess evacuated	2
Bands removed	1
Exenteration	2
Thiersch graft	2
Tumor graft	4
Total	11

SCLERA.

Anterior ciliary angiotomy	4
Sclerotomy	5
with magnet	12
Total	21

LENS.

Capsulotomy	50
Discission	85
attempted extraction	1
extraction in capsule	7
in capsule form with iridectomy	7
simple	17
with buttonhole of iris,	18
with iridectomy,	158
with modified iridotomy	6
with scoop	5
suction	18
Total	372

Total number of operations . 926

OUT-PATIENT OPERATIONS.

Foreign body in cornea	1,142	Abscess, lid	25
Foreign body in lid	143	Brow, abscess	2
Foreign body in conjunctiva	75	Lachrymal abscess	13
Foreign body in cul-de-sac	1	Stye	2
Foreign body in limbus	3	Tumor, lid	1
Foreign body in sclera	4	Cyst, lid	7
Dermoid cyst of conjunctiva	1	Wen, lid	2
Cutaneous horn	1	Trichiasis	2
Septic wound of brow	2	Distichiasis	5
Laceration of lid sutured	2	Papilloma, lid	1
Chalazion	92	Dacryo-cystitis	2
Hordeolum	17	Nodule, conjunctiva	1
Pterygium	16	Electrolysis	10
Wart on lid	2	Total	1,574

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Accommodation and Refraction.

Asthenopia	1
Astigmatism	2,737
Emmetropia	155
Hypermetropia	2,851
Myopia	495
Presbyopia	1,116
Paralysis of accommodation	2
	7,357

Conjunctiva.

Conjunctiva, angioma of	1
burn	60
chemosis	30
cyst	4
dilated vein	1
ecchymosis	68
foreign body	117
granulation	4
hemorrhage	83
herpes bulbar	3
hyperæmia	5
laceration	39
lymphangiectasis	1
lymphoid hypertrophy	7
nodule	1
œdema	13
pinguecula	23
pterygium	73
rupture	1
tumor	2
ulcer	1
vernal catarrh	9
xerosis	1
Conjunctivitis, acute	1,874
angular	8
blephio	11
chronic	272
eczematous	4
follicular	82
gonorrhœal	105
kerato	6
lachrymal	1
membraneous	1
Parinaud's	1
trachoma	128
with pannus	30
purulent	107
phlyctenular	346
traumatic	54
Foreign body cul-de-sac	1
Foreign body of limbus	1
Total	3,579

Cornea and Sclera.

Cornea, abrasion of	184
abscess	4
bleb	1
burn	46
conical	3
cyst	1
denuded	4
facet	1
foreign body	1,610
herpes	5
infiltration	34
injury	91

leucoma	118
adherent	18
inflamed	17
maculæ	121
micro	2
nebulæ	103
opacities	22
scars	152
staphyloma	15
Episcleritis	38
Keratitis	60
bullous	3
dendritic	17
ex acne rosacea	4
fascicular	8
interstitial	62
parenchymatous	1
phlyctenular	345
ulcerative	1
profunda	1
punctata	13
marginal	17
neuropathic	42
recurrent	3
superficial	34
traumatic	20
ulcerative	461
with hypopyon	58
serpiginous	5
vascular	6
Kerato-iritis	15
Sclera, burn of	2
foreign body	12
injury	18
injury of ciliary region	8
staphyloma	5
Scleritis	16
tubercular	3
Sclero-keratitis	8
Total	3,879

General Injuries.

Blows and cuts	295
Burns	53
Total	348

Glaucoma.

Glaucoma, acute	47
chronic	19
hemorrhagic	2
secondary	5
simplex	7
traumatic	1
Total	81

Globe.

Anophthalmos	9
Atrophy	1
Buphthalmos	7
Disorganized globe	18
Exophthalmos	15
Globe, contusion	15
foreign body	17
injury	2
rupture	7
Microphthalmos	1
Panophthalmitis	4
Phthisis bulbi	32
Shrunken	2
Total	130

Iris, Ciliary Body, and Choroid.

Albinism	2
Choroid, atrophy of	3
coloboma	5
rupture	3
staphyloma	3
tiger	1
Choroiditis	37
congenital specific	2
disseminated	1
specific	1
Ciliary injection	20
Cyclitis	2
Iris, adherent	28
coloboma	8
foreign body	2
gumma	1
hyperæmia	19
injury	16

prolapse	20
rupture	2
synechia anterior	6
posterior	15
Iritis	190
chronic	12
gonorrhœal	7
with hypopyon	4
neuropathic	1
plastic	35
rheumatic	29
serous	2
specific	36
traumatic	9
Irido-choroiditis	2
Irido-cyclitis	11
Irido-dialysis	7
Irido-donesis	10
Pupil, exclusion of	7
mydriasis	22
artificial	24
occlusion	8
Retino-choroiditis	21
Uveitis	3
Total	637

Lachrymal Apparatus.

Abscess	59
Cyst	5
Dacryo-cystitis	102
Epiphora	135
Fistula	3
Lachrymal obstruction	60
Mucocele	39
Stenosis	9
Total	412

Lids.

Abscess	52
Angioma	2
Blepharitis	635
Burn	14
Chalazion	428
Cyst	20
Cutaneous horn	1
Dermatitis	17
Distichiasis	9
Ecchymosis	53
Ectropion	42
Eczema	29
Emphysema	5
Epicanthus	6
Entropion	23
Epithelioma	8
Foreign body in	189
Granulation	9
Herpes	1
Hordeolum	182
Lagophthalmos	3
Milium	3
Nævus	2
Œdema	44
Papilloma	6
Pediculosis	2
Phthiriasis	1
Ptosis	55
Stye	44
Symblepharon	4
Trichiasis	42
Tumors	5
Twitching	2
Ulcer	1
Verruca	6
Wen	11
Wound	55
Xanthalasma	4
Total	2,015

Lens.

Aphakia	
Cataract, anterior capsular	4
anterior polar	3
capsular	4
congenital	21
hypermature	6
immature	112
incipient	275
lamellar	2

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

mature	102
nuclear	2
posterior cortical	3
posterior polar	5
traumatic	49
zonular congenital	2
Lens, foreign body in	2
dislocation	19
opacities	95
Total	706

Muscular Affections and Neurosis.

Argyll-Robertson pupil	4
Blepharospasm	5
Diplopia	15
Esophoria	7
Exophoria	7
Exophthalmic goitre	5
Herpes zoster	7
Hyperphoria	3
Nictitation	1
Nystagmus	52
Paralysis	11
facial	10
third	16
external rectus	15
internal rectus	13
superior rectus	1
Paresis of the abductor	1
superior oblique	4
Strabismus, alternating	35
convergent	291
divergent	99
Supra-orbital neuralgia	2
Total	604

Optic Nerve and Retina.

Amblyopia	45
hysterical	1
toxic	32
tobacco	4
Amaurotic, family idiocy	2
Neuritis	16
Neuro-retinitis	9
Optic nerve, atrophy of	50
Retina-coloboma	3
degenerative changes in macular region	15
embolism of central artery,	8
glioma	1
hemorrhage	21
œdema	8
separation of	30
Papillitis	4
Retinitis	5
albuminuric	5
diabetic	1
hemorrhagic	4
pigmentosa	3
proliferans	3
specific	1
Scotoma, unclassified	19
Total	290

Orbit.

Orbit, abscess of	4
cellulitis	3
cyst	2
emphysema	1
tumor	3
periostitis	3
Total	16

Vitreous.

Muscæ volitantes	4
Vitreous, foreign body in	3
hemorrhage in	21
opacities of	122
webs	7
Total	157

Miscellaneous.	
Eloped	16
Entered by mistake	9
No diagnosis	85
No disease	22
Visions not refracted	1,345
Referred to other institutions	228
Refused treatment	4
Referred to nose-room	192
Referred to ear-room	29
Total	2,030

Other Diseases.	
Abscess of brow	3
Arterio-sclerosis	3
Blennorrhœa sac	3
Color-blind	1
Dermoid cyst of brow	1
Eczema	12
Hyphemia	11
Irritation	54
Locomotor-ataxia	1
Neurasthenia	10
Persistent pupillary membrane	4
Persistent pupillary artery	1
Meibomian gland	7
Photophobia	2
Septic wound of brow	1
Tumor of brow	1
Frontal sinus	5
Total	120

SUMMARY.

Accommodation and refraction	7,357
Conjunctiva	3,579
Cornea and sclera	3,879
General injuries	348
Glaucoma	81
Globe	130
Iris, ciliary body, and choroid	637
Lachrymal apparatus	412
Lids	2,015
Lens	706
Muscular affections and neuroses	604
Optic nerve and retina	290
Orbit	16
Vitreous	157
Miscellaneous	2,030
Other diseases	120
Total	22,361

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

	R.	B.	L.
Lop ear	0	2	0
Pre-auricular abscess	2	0	0
Post-auricular abscess, due to pediculi capitis	2	0	1
Perichondritis	0	0	2
Othæmatoma with erysipelas	1	0	0
Othæmatoma	0	0	2
Cyst of lobe	1	0	0
Cyst (dermoid)	0	0	1
Eczema of auricle	1	0	0

II. DISEASES OF THE MEATUS.

Otitis diffusa externa	0	0	1
Otitis externa circumscripta	5	1	8
Otitis externa circumscripta with post-aural abscess	1	0	1
Otitis externa circumscripta with erysipelas	0	0	1
Cerumen	0	0	1

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Inflammations.*

Otitis media acuta	0	0	1

b. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta—simple	11	6	11
with tonsillitis	0	1	0
otitis externa circumscripta	1	0	1
otitis externa diffusa	1	0	1
meningitis	1	2	2
cervical adenitis	0	2	1
lobar-pneumonia	0	3	0
facial paralysis	3	0	1
enteritis	0	0	1

	R.	B.	L.
hemorrhage and bronchitis	0	0	1
mastoiditis	106	2	78
mastoiditis and post-aural abscess	22	0	27
mastoiditis, post-aural abscess, and "facial"	1	0	0
mastoiditis, post-aural abscess, and erysipelas	1	0	1
mastoiditis, post-aural abscess, and extradural abscess,	2	0	0
mastoiditis and cervical adenitis	0	0	1
mastoiditis and thrombosed lateral sinus	7	0	0
mastoiditis and furunculosis	6	2	6
mastoiditis and meningitis	1	1	1
mastoiditis and perisinous abscess	1	0	1
mastoiditis and Bezold abscess	3	0	2
mastoiditis and Bezold and diabetes	0	0	1
mastoiditis and post-aural sinus	1	0	0
mastoiditis and follicular tonsillitis	0	1	2
mastoiditis and retro-pharyngeal abscess	1	0	0
mastoiditis and sub-occipital abscess	0	0	1
mastoiditis and cerebellar abscess	1	0	0
mastoiditis and thrombosed sinus and cerebellar hernia	0	0	1
mastoiditis and extradural abscess	1	0	0
mastoiditis and gliomata	1	0	0
mastoiditis and post-aural and extradural abscess and thrombosed lateral sinus with septicæmia	1	0	0
mastoiditis and thrombosed lateral sinus	0	1	0
mastoiditis and thrombosed lateral sinus and cavernous sinus with metastatic abscesses	1	0	0
mastoiditis and abscess of tempero-sphenoidal lobe	1	0	0
mastoiditis, post-aural abscess, and broncho-pneumonia and enteritis	0	0	1
mastoiditis and pregnancy	1	0	0
mastoiditis and tubercular meningitis and pneumonia	0	0	1
mastoiditis recurrent	13	0	11
mastoiditis recurrent and facial paralysis	2	0	0
mastoiditis recurrent and post-aural abscess	1	0	0
mastoiditis recurrent, thrombosed lateral sinus, and meningitis	1	0	1

c. Chronic Suppurative Inflammations.

Otitis media suppurativa chronica—simple	9	13	15
with polypi	2	3	1
polypi and facial paralysis	1	0	1
facial paralysis (left)	0	1	0

	R.	B.	L.
facial paralysis and cervical adenitis	1	0	0
exostoses of canal wall and granulations	1	0	0
labyrinthitis	1	2	0
meningitis and optic neuritis	1	0	0
stomatitis	1	0	0
cervical adenitis	0	0	1
radical cavity	0	0	1
mastoiditis	12	1	14
mastoiditis and facial paralysis	1	0	0
mastoiditis and thrombosed lateral sinus and meningitis	1	0	0
mastoiditis and meningitis	1	0	0
mastoiditis and thrombosis of cavernous sinus and facial	0	0	1
mastoiditis and post-aural abscess	2	0	0
mastoiditis and post-aural sinus	1	0	0
mastoiditis and eczema of auricle	0	0	1
mastoiditis and facial erysipelas	1	0	0
mastoiditis and otitis externa diffusa	1	0	0
mastoiditis and otitis externa diffusa with cellulitis	1	0	0
mastoiditis and extradural abscess	2	0	0
mastoiditis and perisinous abscess	0	0	1
mastoiditis and perisinous abscess and extradural abscess and meningitis	1	0	0
mastoiditis and necrosis of canal wall	0	0	1
cholesteatoma and pachymeningitis and extradural and cerebellar abscess	1	0	0

IV. INTERNAL EAR.

Hemorrhage into labyrinth	0	0	1

V. DISEASES OF NOSE AND THROAT.

Deviation of septum	0	37	0
Spurs of septum	0	3	0
Spurs with enlarged inferior turbinates	0	0	1
Hæmatoma of septum	0	1	0
Perforation of septum (specific)	0	1	0
Abscess of septum	0	1	0
Nasal obstruction (post-operative)	0	1	1
Hemorrhage (post-operative)	0	5	0
Enlarged inferior turbinates	2	8	2
Enlarged inferior turbinates and adenoids and tonsils	0	1	0
Enlarged inferior and middle turbinates	0	1	0

	R.	B.	L.
Nasal polypi	3	0	0
Fracture of nose (old)	0	3	0
Fracture of nose (compound)	0	1	0
Purulent rhinitis	0	1	0
Ranula	1	0	0
Follicular tonsillitis	0	3	3
Follicular tonsillitis and cervical adenitis	1	0	0
Necrosis of tonsil	0	0	1
Retro-pharyngeal abscess	0	1	0
Alveolar abscess	0	1	0
Sarcoma of tonsil and neck	0	0	1
Bursa of hyoid	0	1	0
Stricture of larynx	0	2	0
Cellulitis of sub-maxillary gland	0	1	0
Adenoids	0	152	0
Adenoids and tonsils	0	739	0
Tonsils	0	42	0

VI. DISEASES OF ACCESSORY SINUSES.

a. *Frontal Sinus.*

Frontal sinusitis acuta	0	2	1
with ethmoiditis	1	1	0
orbital abscess	1	0	1
antrum of highmore and mastoiditis (left)	1	0	0
sinusitis acuta with erysipelas	0	1	0
Frontal sinusitis chronica	4	0	4
with ethmoiditis	1	2	0
antrum of highmore	0	1	1
antrum of highmore and orbital abscess	0	0	1
dacryo-cystitis	0	0	1
chronica recurrent	2	0	0
chronica recurrent with erysipelas	0	0	1

(b) *Antrum of Highmore.*

Chronic	4	2	11
Sarcoma right antrum	1	0	0
Chronic antrum with ethmoiditis	0	1	1
Carcinoma of antrum and ethmoid	1	0	0

c. *Ethmoidal Sinusitis.*

Acute	0	0	2
with uræmia and Bright's disease	0	1	0

VII. MISCELLANEOUS.

	R.	B.	L.
Lipoma of nose and cheek	1	0	0
Carcinoma of temporal bone with facial paralysis	0	0	1
Carcinoma of œsophagus	0	2	0
Stricture of œsophagus	0	1	0
Neuropathic keratitis	0	1	0
Trifacial neuralgia	1	0	0
Cataract o. s. (traumatic)	0	0	1
Cellulitis of neck	2	0	0
Cervical adenitis	0	0	0
Cervical adenitis tubercular	0	0	0
Cervical adenitis with adenoids	0	0	0
Cervical abscess	2	0	0
Nasal polypi with asthma	0	1	0
Convalescing mastoid wound	9	0	10
Convalescing mastoid wound with erysipelas	2	0	0
Convalescing mastoid wound with keloid	1	0	0
Convalescing mastoid wound with meningitis	0	0	1
Convalescing mastoid wound with petussis	0	0	2
Convalescing mastoid wound with cervical adenitis	2	0	1
Convalescing mastoid wound with scarlet fever	1	0	0
Convalescing radical cavity with polypus	1	0	0
Convalescing radical cavity with erysipelas	0	0	1
Neuralgia, supra-orbital	0	0	1
Deviated septum with T. b.	0	0	1
Acute nephritis	0	1	0
Meningitis	0	1	0
Rheumatism	0	1	0
Broncho-pneumonia	0	1	0
Diphtheria	0	4	0
Scarlet fever	0	4	0
Typhoid	0	1	0
Erysipelas	0	4	0
Parotitis	1	0	0
Empyæma	2	0	0
Emphysema	0	1	0
Abscess of right buttock	1	0	0
Deaf-mutism	0	2	0

AURAL OPERATIONS.

PART. DISEASE. OPERATION.	R.	B.	L.
1. Auricle.			
Abscess of lobe incised	1	0	0
Abscess of tragus incised	1	0	1
Cyst excised	3	0	0
Congenital fistula incised	1	0	0
Othæmatoma incised	1	0	1
Lop ears	2	1	2
Hæmatoma incised	0	0	3
Papilloma tragus removed	1	0	0
2. Meatus.			
Cerumen removed	1	0	0
Abscess incised	91	4	66
Circumscribed abscess incised	22	0	14
Exostosis removed	1	0	0
Foreign body removed	5	0	2
3. Tympanum.			
Drum membrane, paracentesis	652	350	526
Carious ossicles removed	6	0	4
Granulations in tympanum removed	1	0	1
Polyp removed	61	2	44
4. Nose, Throat, and Pharynx.			
Abscess septum incised	0	6	0
Nose, spur removed	0	23	0
turbinate removed	0	102	0
polypus removed	0	36	0
foreign body	0	2	0
parrafine	0	1	0
plastic	0	1	0
fibroma turbinate removed	0	1	0
Naso-pharynx, adenoids removed	0	242	0
adenoids and tonsils removed	0	891	0
tonsils removed	0	4	0
Fracture nasal bone (reduction)	0	3	0
Sub-mucous operations (spurs and septum)	0	167	0
Uvula cut	0	1	0

	R.	B.	L.
Cyst tonsil removed	1	0	0
Intubation	0	2	0
Frontal sinus	6	1	1
Killian operation	2	0	1
Killian operation with radical antrum	2	0	0
Radical antrum	5	0	3
Radical antrum with resection of septum	1	0	0
Ethmoids curetted	0	4	0
Peritonsillar abscess incised	0	12	0
Retro-pharyngeal abscess incised (tracheotomy)	0	1	0
Antrum opened	0	12	0
Stricture œsophagus incised	0	2	0
Sarcomatous tissue œsophagus removed	0	2	0
Exploration of temporal sphenoid	0	1	0

5. Mastoid Region.

Abscess, post-aural, incised	11	0	14
Cervical abscess incised	5	0	4
Cervical glands incised	3	0	0
Mastoid operations (acute)	119	1	108
Mastoid operation with cerebellar abscess	1	0	0
Mastoid operation with ligation of jugular	13	0	3
Mastoid operation with brain abscess	1	0	0
Skin graft	5	0	3
Ligation of jugular vein	0	2	0
Post-aural tumor removed	1	0	0
Trephine and lumbar puncture	1	0	1
Radical mastoid operation	25	0	14

MISCELLANEOUS OPERATIONS.

Tongue-tie freed	0	1	0
Ranula curetted	0	1	0
Abscess lung incised	0	1	0
Empyæma	0	1	0
Various operations	2	0	4

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L
Abscess	0	0	1
Abscess of lobe	1	0	0
Abscess of tragus	1	0	0
Papilloma tragus	0	0	1
Tumor	0	0	1
Congelatio	1	0	1
Dermatitis	1	0	1
Eczema	32	12	47
Erysipelas	3	0	2
Hæmatoma traumatica	0	0	1
Othæmatoma	6	0	7
Intertrigo	2	0	1
Perichondritis	2	0	2
Perichondritis with erysipelas	0	0	1
Lipoma	2	0	0
Specific ulceration	0	1	0
Exostosis	2	0	2
Impetigo contagiosa	1	0	0

b. *Deformities.*

Cornu	1	0	0
Microtia	4	0	1
Microtia with atresia canal	1	0	0
Congenital fistula of auricle	3	1	2
Congenital lop ears	0	8	0

c. *Neoplasms.*

Cyst of auricle	5	0	2
Cyst of lobe	2	0	1
Epithelioma	2	0	1
Papilloma	1	0	0
Carcinoma	1	0	0

d. *Trauma.*

	R.	B.	L.
Auricle	2	0	1
Auricle with facial paralysis	1	0	0

2. MEATUS.

Cerumen	503	732	535
Atresia	0	3	0
Abscess	9	0	2
Eczema	31	12	27
Pruritus	2	0	1
Acute diffuse inflammation	27	1	22
Chronic diffuse inflammation	3	0	3
Acute circumscribed inflammation	122	5	69
Acute circumscribed inflammation with bronchial cleft	0	0	1
Foreign body (animate)	14	3	13
Foreign body (inanimate)	8	1	3

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	3	0	4
Trauma indirect	2	0	1
Myringitis	1	0	0
Hæmatoma	1	0	0

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	204	157	101
With adenoids	102	98	70

Chronic Secretory Catarrhal Inflammation.

Mucous	203	575	248
With adenoids	120	320	117
With labyrinthine disease	1	1	1

b. *Adhesive Catarrhal Inflammation.*

Secretory	85	89	42
Secretory with labyrinthine disease	3	1	5
Secretory with specific labyrinthine disease	0	1	0

c. *Acute Inflammation.*

	R.	B.	L.
Simple	612	258	422
With adenoids	67	30	65
mastoiditis	40	9	58
facial paralysis	15	0	7
meningitis	1	0	0
post-aural abscess	1	0	2
mastoid abscess	1	0	1

d. *Acute Suppurative Inflammation.*

Simple	337	123	242
With cervical abscess	1	0	1
brain abscess and right hemiplegia	1	0	0
circumscribed abscess	3	0	2
mastoiditis	149	27	137
mastoiditis and meningitis	2	0	1
mastoiditis and facial paralysis	1	0	2
mastoid fistula	1	0	1
post-aural abscess	22	0	12
facial paralysis	1	0	0
adenoids	74	27	34
abscess parotid gland	2	0	1

e. *Chronic Suppurative Inflammation.*

Simple	315	1921	328
With atresia canal	1	2	0
mastoiditis	21	0	28
facial paralysis	2	0	3
facial paralysis and meningitis	1	0	0
mastoid fistula	0	0	1
torticollis	0	0	1
caries of the ossicles	12	0	15
facial paralysis	0	0	1
facial paralysis and pre-auricular new growth	0	0	2
polypus in the tympanum	63	5	62
granulations in the tympanum	20	3	27
post-aural abscess	2	0	2
post-aural abscess and facial paralysis	0	0	1
adenoids	10	7	15
Effect of suppurative inflammation	94	124	87
labyrinthine disease	1	0	3
facial paralysis	2	0	2
adenoids	11	9	10

IV. NEUROSIS OF THE MIDDLE EAR.

	R.	B.	L.
Otalgia from teeth	28	0	20
pharynx	4	0	3

V. DISEASES OF THE LABYRINTH.

Labyrinthitis	6	5	9
Anæmia	0	0	1
Concussion	2	0	1
Trauma	1	0	0
Hemorrhage	1	0	2

MISCELLANEOUS.

Adenoids and tonsils	0	167	0
Adenoids	0	132	0
Lingual tonsils	0	3	0
Tonsils	0	44	0
Hypertrophic rhinitis	0	82	0
Atrophic rhinitis	0	88	0
Purulent rhinitis	0	67	0
Abscess (nose)	0	3	0
Acne (nose)	0	1	0
Bronchial fistula	1	0	0
Peritonsillar abscess	0	9	0
Polyp (nose)	0	32	0
Polyp (nose) with ethmoiditis	0	1	0
Spur (nose)	0	115	0
Foreign body (nose)	0	4	0
Deaf-mutism	0	17	0
Deflected septum	0	140	0
Frontal sinus (acute)	27	5	32
(chronic)	15	3	19
(chronic) with orbital abscess	0	0	1
Frontal sinus and antrum with foreign body antrum	0	1	0
Frontal sinus and antrum (acute)	3	1	2
Ethmoiditis	0	12	0
Sphenoiditis	0	1	0
Acute pharyngitis	0	39	0
Chronic pharyngitis	0	31	0
Osteoma lower jaw	0	1	0
Deflected septum with hæmatoma	0	1	0
Papilloma turbinate	0	1	0

	R.	B.	L.
Sarcoma turbinate	1	0	0
Papilloma larynx	0	1	0
Hypertrophy turbinate	0	149	0
Adenitis	0	10	0
Abscess septum	0	4	0
Fibroma naso-pharynx	0	5	0
Deformity (nose)	0	6	0
Trauma (nose)	0	1	0
Trauma (jaw)	0	1	0
Epistaxis	0	11	0
Eczema (nose)	0	6	0
Specific nose and throat	0	8	0
Cleft palate	0	3	0
Bifid uvula	0	2	0
Ulceration septum	0	2	0
Specific ulceration septum	0	4	0
Ulceration pharynx	0	1	0
Specific pharynx	0	5	0
Tongue-tie	0	5	0
Ranula	0	2	0
Syphilis	0	5	0
Antrum of highmore	0	0	1
Carcinoma œsophagus	0	1	0
Stricture of œsophagus	0	1	0
Specific laryngitis	0	6	0
Specific labyrinthitis	0	1	0
Fracture skull	0	1	0
Acute tonsillitis with peritonsillar abscess	0	1	0
Furunculosis and erysipelas nose	0	1	0
Specific perforation palate	0	1	0
Sarcoma antrum	1	0	0
Retro-pharyngeal abscess	0	4	0
Tuberculosis larynx	0	1	0
Bleb larynx	0	1	0
Eloped	0	18	0
No diagnosis	0	30	0
No ear disease	0	49	0

DONATIONS IN 1908–1909.

The Managers desire to acknowledge the receipt of the following donations in 1908–1909:—

Medical Journals for the Surgeons' Library, from Dr. B. Joy Jeffries.

Transactions of the American Ophthalmological Society, from S. B. St. John, M.D.

Magazines, from Mr. Augustus Hemenway.

Book for Surgeons' Library, from Dr. Harris P. Mosher.

Graphophone discs, from Mr. Herbert M. Sears.

Graphophone discs, from Mrs. S. H. Bennett.

Graphophone discs, from Mrs. M. A. Peckham.

Flowers, from Rev. E. F. McLeod.

Flowers, from Arlington Street Church.

Flowers, anonymous.

Flowers, from Mr. Charles Ufford.

Flowers, from Boston Flower Mission.

Children's clothing, from Jamaica Plain Needlework Guild.

Children's clothing, from the Channing Circle, Arlington Street Church.

Children's sweaters, from Mrs. C. P. Curtis.

Spectacles and eyeglasses, from Mr. Shepperd Brooks.

Spectacles and eyeglasses, anonymous.

Through the kindness of Dr. John Dixwell the house patients were treated to a musical entertainment on Dec. 11, 1908.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr. Henry Parkman, Mr. William D. Sohier, Mr. William H. Seabury, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. C. P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. C. P. Curtis, Mr. Harvey Clap, Mr. Charles English, Mr. H. W. Morse, and Dr. Emil Amberg.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

Graduates of any general hospital training school in good standing will be admitted to the Post-graduate Course at the Infirmary.

The course of instruction consists of four months' practical work in the aural and ophthalmic wards, the Out-patient Department, operating, sterilizing, and dressing rooms, with thirty-two lectures and classes by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

The lectures follow a graded course, beginning with the anatomy, physiology, and pathology of the eye and ear, concluding with the applied treatment of diseases of the same and the relation of general nursing to the eye and ear specialties.

The clinical and practical instruction in the hospital is given by the House Surgeons, Superintendent of Nurses, and the permanent Head Nurses, who are thoroughly prepared to give individual instruction.

Nurses completing the four months' course, and passing a satisfactory examination, receive the diploma of the school.

Nurses, while on duty, are expected to wear the uniform of the school from which they graduated.

Members of the school are expected to pass three weeks on night duty.

It is possible for a limited number of nurses, after completing their regular course, to arrange for a longer period of instruction in any one branch, should they desire.

The remuneration is $72 for the full course.

Application papers furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary, of Boston, the sum of dollars, to be applied to the uses of said infirmary.

EIGHTY-FIFTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1910

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the Superintendent.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

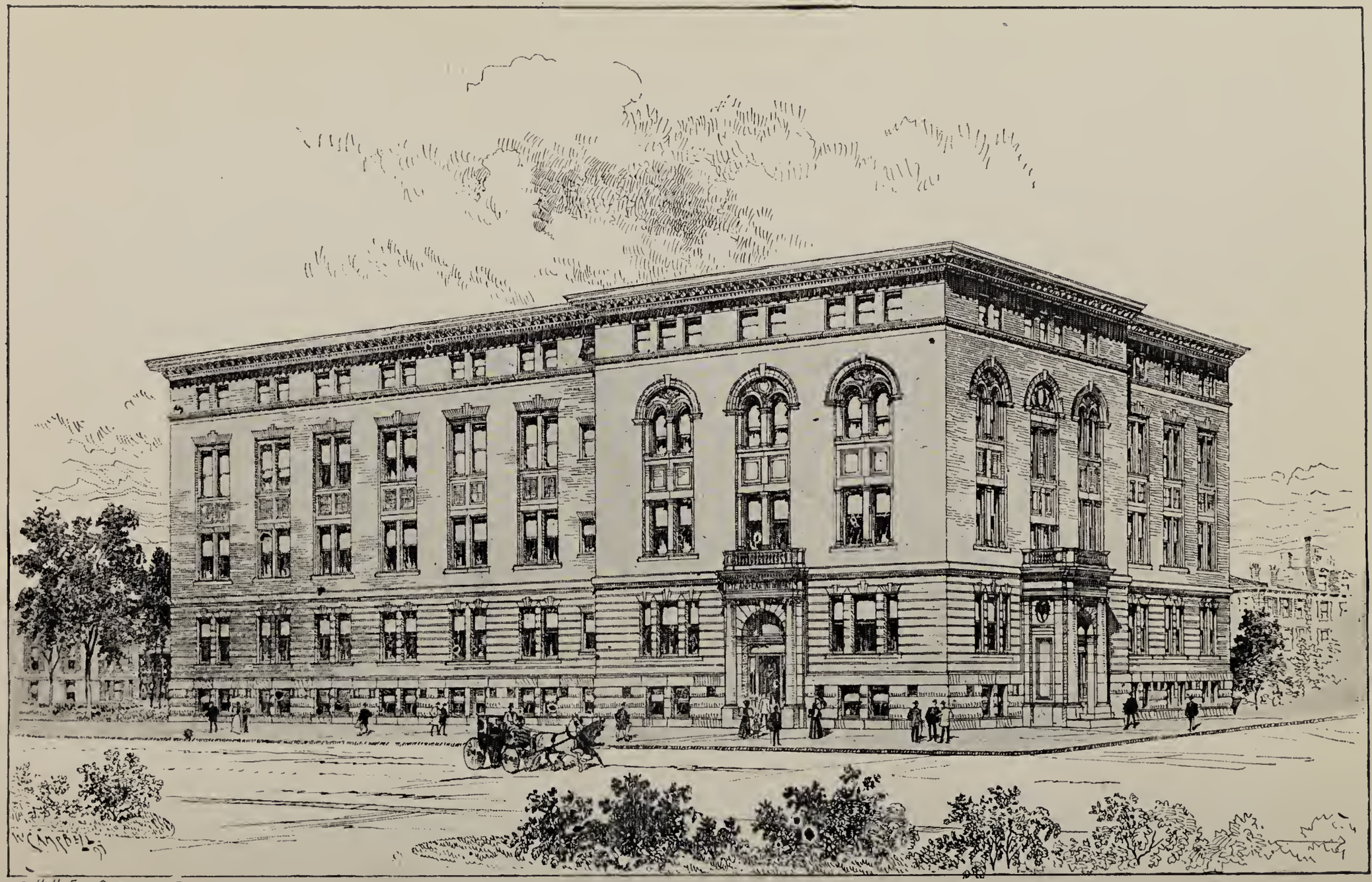
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy**, and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-FIFTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1910

BOSTON
GEO. H. ELLIS CO., PRINTERS, 272 CONGRESS STREET
1911

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OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

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	Mr. HOMANS.		Mr. ENDICOTT.
May,	Mr. HOMANS.	November,	Mr. ENDICOTT.
	Mr. SEARS.		Mr. GARDNER.
June,	Mr. SEARS.	December,	Mr. GARDNER.
	Mr. PARKMAN.		Mr. SEABURY.

SURGICAL BOARD.

Consulting Ophthalmic Surgeons.

HASKET DERBY, M.D.
HENRY L. SHAW, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
OLIVER F. WADSWORTH, M.D.

Consulting Aural Surgeons.

J. ORNE GREEN, M.D.
CLARENCE J. BLAKE, M.D.

Ophthalmic Surgeons.

H. BECKLES CHANDLER, M.D.
MYLES STANDISH, M.D.
FREDERICK E. CHENEY, M.D.
EDWIN E. JACK, M.D.
ALEXANDER QUACKENBOSS, M.D.
HENRY H. HASKELL, M.D.

Aural Surgeons.

FREDERICK L. JACK, M.D.
EDWARD M. PLUMMER, M.D.
EUGENE A. CROCKETT, M.D.
PHILIP HAMMOND, M.D.

Assistant Ophthalmic Surgeons.

EDMUND W. CLAP, M.D.
FRED M. SPALDING, M.D.
A. GARDNER MORSE, M.D.
ELWOOD T. EASTON, M.D.
FREDERICK H. VERHOEFF, M.D.
ROBERT G. LORING, M.D.

Assistant Aural Surgeons.

GEORGE A. WEBSTER, M.D.
D. HAROLD WALKER, M.D.
HARRIS P. MOSHER, M.D.
ALFRED M. AMADON, M.D.
WILLIAM F. KNOWLES, M.D.
GEORGE H. POWERS, Jr., M.D.
GEORGE L. TOBEY, Jr., M.D.
FRANCIS P. EMERSON, M.D.

Junior Assistant Ophthalmic Surgeons

CHARLES D. JONES, M.D.
PETER H. THOMPSON, M.D.
SAMUEL J. McDONALD, M.D.
GEORGE S. DERBY, M.D.
W. HOLBROOK LOWELL, M.D.
GEORGE H. RYDER, M.D.

Ophthalmic Clinical Assistants.

EDWARD K. ELLIS, M.D.
P. SOMERS SMYTH, M.D.
MINOT F. DAVIS, M.D.
EDWARD D. HURLEY, M.D.
RALPH A. HATCH, M.D.
HENRY HAWKINS, M.D.
J. J. CORBETT, M.D.
FREDERICK J. McINTIRE, M.D.

Aural Clinical Assistants.

BERTRAM H. CASWELL, M.D.
DANA W. DRURY, M.D.
CALVIN B. FAUNCE, Jr., M.D.
PERCY C. PROCTOR, M.D.
TIMOTHY J. SHANAHAN, M.D.
FREDERICK L. BOGAN, M.D.
JOHN H. BLODGETT, M.D.
WM. W. HENNESSEY, M.D.
JOHN L. LOUGEE, M.D.

Pathologist.

FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.

GEORGE A. WATERMAN, M.D.

Consulting Surgeons.

SAMUEL J. MIXTER, M.D. LINCOLN DAVIS, M.D.

Consulting Physicians.

THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
ROGER I. LEE, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.

HENRY G. CARROLL, M.D. WILLIAM LIEBMAN, M.D.

Ophthalmic Externe.

ROLAND C. MACKENZIE.

Aural House Surgeons.

F. NOLTON BIGELOW, M.D. ALEX. D. McKELVEY, M.D.

Aural Externe.

OLIVER A. LOTHROP, M.D.

EXECUTIVE OFFICERS.

Superintendent.

FARRAR COBB, M.D.

Matron and Superintendent of Nurses.

MARY COONAHAN.

Apothecary.

HOWARD W. MORSE.

Assistant to the Superintendent.

JOHN G. SCHROEDER.

Assistant Matron.

HARRIET L. HARRIS.

Supervisor.

MITCHELL A. DEARBORN.

Opticians.

ANDREW J. LLOYD COMPANY

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated by a Special Act of the Great and General Court on Feb. 23, 1827, and since that time an enormous amount of charitable work has been done by the Infirmary. The Infirmary is the second oldest hospital in New England, and the fourth oldest special hospital of its kind.

Probably more work has been done during the past year for the poor and needy than at any time in its history, because on Jan. 1, 1910, the capacity of the hospital was increased by fifty additional beds,—an increase of nearly one-third. Previous to that time there were one hundred and sixty (160) beds in the hospital, now there are two hundred and ten (210). During all these years, patients with diseases of the eye and ear have been gratuitously treated. With its increased capacity for ward patients, its out-patient clinic, its special building (known as the Gardner Building) for the treatment of contagious ophthalmia, the pathlogical laboratory, and nurses' home,—it is by far the largest hospital for the treatment of diseases of the eye and ear in the world.

The largest number of cases treated in the wards on any one day was 195; the smallest number, 104; the daily aver-

age, 150 (17 more than on previous year). The total number of patients admitted to the wards was 3,432, of which number 1,709 were children under fourteen years of age. The total number of days' board furnished to patients was 54,403,—5,975 days more than last year. Of this 40,547 was for free patients. The average stay per patient in the hospital was 15 days. The number of new patients applying for treatment in the Out-patient Department was 28,906,—an increase of 403.

GARDNER BUILDING.

Renewed attention should be called to the greatest work of the Infirmary; namely, the care of cases of contagious ophthalmia in the special building built some years ago by Mr. George A. Gardner for the treatment of contagious diseases of the eye, especially the cases occurring in infancy. This work is of the utmost value sociologically. It saves the community and the Commonwealth annually a large amount of money in the prevention of blindness. During the past year we have treated 270 cases in this building, 137 of which were infants under one and one-half years of age. This building is a separate structure, three stories high, with a capacity of 25 beds and facilities for isolation. The cost of maintenance of this difficult department of the Infirmary during the past year was in the neighborhood of $10,000. A detailed report of this special work will be found in the report of the Superintendent. The Board of Managers earnestly appeal to the public to raise *an Endowment Fund* for this branch of the work of the hospital.

SOCIAL SERVICE DEPARTMENT.

The Board of Managers wish to indorse in full measure the work of the Social Service Department. One of the most important parts of the work is to follow up the cases of contagious ophthalmia, especially in infants, after they are discharged from the Infirmary. Under the charge of Miss Brannick the fourth year of its work has begun. With the financial assistance of a few devoted friends, who are especially interested in sociological work and in the prevention of blindness in the community, this work has been made possible. The Managers have recently voted to take an increased financial responsibility in this matter, and recognize that, when sufficient endowment can be obtained, this department should form a part of the hospital policy and that all the expenses should be borne by the Management. No greater good could be done among the poor than by following cases of this disease.

FRESH-AIR TREATMENT.

Fresh-air treatment out of doors has become a very great need in the work of any institution. By the construction of a roof garden on the present hospital building a very satisfactory out-of-doors roof garden could be constructed. When the nurses' home was built and alterations were made on the top of the building, the question of the construction of a roof garden was seriously considered and estimates were obtained. At that time the Management did not feel justified in incurring the additional expense of some $10,000. The Board of Managers earnestly appeal to the public to raise the *sum of $10,000* to enable them to build this roof garden.

NURSES' HOME.

The Board of Managers have realized for several years that the Infirmary could not take care of the large number of worthy cases applying for treatment in the wards unless some radical changes were made. Therefore, in 1909 a nurses' home to house the nurses' and domestic servants was constructed on the site of the old Infirmary building on the corner of Charles and Cambridge Streets, the land being the property of the Infirmary, at a cost of $98,097.77, and has been occupied by nurses and servants since August 1, 1909.

NEW WARDS.

When the nurses' home was completed and occupied, it was possible to make alterations on the top floor of the hospital building formerly occupied by nurses and servants, so that fifty additional beds in wards and rooms as well as operating and service rooms could be provided. In this way it became possible to relieve the overcrowding and to admit for treatment many cases that previously had to be turned away. The cost of the alterations in the hospital building was $21,207.45.

PATHOLOGICAL LABORATORY.

At the same time it became necessary to provide new quarters for the pathological work of the institution,—one of the most important features of all hospital work. Accordingly, a special laboratory building was constructed near the main hospital at a cost of $11,735.91.

The total cost of the Nurses' Home and the alterations for the New Wards and the new Pathological Laboratory was $131,041.13.

MAINTENANCE.

The total cost of maintaining the Infirmary proper, the Out-patient Department, the Gardner Building, the Pathological Laboratory, and the Nurses' Home, was:—

Expenditures	$105,719.65
Receipts	92,081.43
Deficit	$13,638.22

The total per capita cost per house patient per week was $12.88, 34 cents less than the year before. The cost of subsistence per inmate per day was 21 cents.

Before undertaking these additions at such a large cost, the Managers fully realized that the expense of maintaining the institution would be considerably increased and that special efforts must be made in the future to raise each year the necessary funds to meet expenses.

It has cost less to keep up the Nurses' Home and run the additional ward floor than was estimated at the beginning. Notwithstanding this the deficit of expenses over receipts has been very large, as is above stated.

At the present time the Infirmary with its additional capacity for carrying on its great charitable work should be an object of special interest to the people of the city and State.

DEFICIT.

The large deficit of $13,638.22 can only be met by the Management in one way; that is, by selling securities belonging to unrestricted permanent funds. Each time this is done, a blow is struck at the investments of the Infirmary; and, unless the public come forward and give money towards its running expenses, its work must be curtailed, thus causing

suffering and disappointment in the treatment of many worthy cases.

The Board of Managers desire to acknowledge the following gifts received during the year:—

H. M. Bacon	$3.00
George Dexter	100.00
F. W. Hunnewell	100.00
A. T. Lyman	250.00
Albertina H. Sears	100.00
Total	$553.00

WILLIAM C. ENDICOTT,
WILLIAM S. SPAULDING,
Committee of the Board of Managers.

NURSES' HOME.

OPENED AUGUST 5, 1909.

REPORT OF THE TREASURER.

INCOME RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1910.

INCOME.

RECEIPTS:

Income from investments		$26,727.41
Appropriation from the State		35.000.00
Rebate on bank tax		89.10
Income from trustees, will of E. V. Ashton		1,600.00
Income from estate of Robert B. Brigham		1,000.00
Gifts for running expenses		553.00
Rent of 15 Warren Avenue, Somerville		252.26
From Superintendent, as per his report:		
Board of patients	$7,750.01	
Out-patient visits	6,034.50	
Medicines	8,595.24	
Opticians' accounts	4,277.80	
Sundries	202.11	
		26,859.66
		$92,081.43
Excess of expenditures over receipts		13,638.22
		$105,719.65

EXPENDITURES.

Running expenses per account of Superintendent		$102,197.22
Additional expenses, per account of Treasurer:		
City of Somerville, taxes 15 Warren Avenue	$72.58	
Legal expense	40.00	
Printing Annual Reports and postage	446.21	
Accrued interest on notes and loans	172.49	
Sundries	2,791.15	
		$3,522.43
		$105,719.65

Book Value.	*No. of Shares.*	Railroad Stocks.
$10,625.87	135	Atchison, Topeka & Santa Fé Ry. Preferred.
11,907.50	100	Chicago Junction Ry. & Union Stock Yards Preferred.
1,346.25	25	Concord & Montreal R.R.
7,954.75	62	Chicago & No. Western Ry.
14,205.35	145	Fitchburg R.R. Preferred.
1,830.00	20	Manchester & Lawrence R.R.
14,187.50	100	Manhattan Railway.
5,896.88	50	New York Central & Hudson River R.R.
8,156.25	100	Union Pacific Preferred.
410.00	5	Vermont & Mass. R.R.
1,215.00	15	Northern R.R.
$77,435.35		

Bank Shares.

$4,087.50	30	Merchants National Bank of Boston.

Real Estate Shares.

$10,113.25	10	Boston Real Estate Trust.
1,000.00	1	Boston Ground Rent Trust.
500.00	5	Bannigan Building Trust.
200.00	2	Devonshire Building Trust.
500.00	5	Warren Chambers Trust.
$12,313.25		

Miscellaneous Shares.

$25,591.62	200	American Tel. & Tel. Co.
11,680.75	100	American Sugar Refining Co. Preferred.
25,000.00	250	Ballard Vale Mills Preferred.
5,000.00	50	Mass. Electric Co. Preferred.
7,518.70	100	West End Street Ry. Common.
6,700.00	6,700	Mass. Hospital Life Insurance, Annuity in Trust.
$81,491.07		

Railroad Bonds.

		Par Value.
$8,785.78	Atchison, Topeka & Santa Fé General Mtge. 4% .	$7,500.00
	Atchison, Topeka & Santa Fé Adjustment 4% . . .	4,000.00
4,545.40	Atchison, Topeka & Santa Fé Convertible 4% . . .	5,000.00

Book Value.		*Par Value.*
9,925.00	Boston & Albany R.R. 4%	10.000.00
9,950.00	Burlington & Missouri River (Nebraska) 6%	8,000.00
10,637.50	Chicago, Milwaukee & St. Paul R.R. 6%	10,000.00
5,244.00	Cincinnati, Ind., St. Louis & Chicago 6%	5,000.00
10,287.50	Chicago, Burlington & Quincy R.R. 4%	10,000.00
24,900.00	Chicago, Junc. Ry. & Union Stock Yards 4%	25,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,400.00	Chesapeake & Ohio Ry. Co. 4½%	10,000.00
10,675.00	Fitchburg R.R. 4%	10,000.00
10,000.00	Iowa Falls & Sioux City R.R. 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield R.R. 5%	5,000.00
10,000.00	Kansas City, Ft. Scott & Gulf R.R. 5%	10,000.00
9,095.00	Kansas City, Memphis & Birmingham R.R. 5%	9,000.00
10,008.50	Kansas City & Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island Ry. 4%	25,000.00
13,776.70	New York Central & Hudson R.R. 3½%	15,000.00
4,736.25	Northern Pacific-Great Northern 4%	10,000.00
9,450.00	Oregon Short Line 4%	10,000.00
13,482.65	Pennsylvania R.R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain R.R. 5%	10,000.00
$234,914.28		$243,500.00

Miscellaneous Bonds.

$19,271.53	American Tel. & Tel. Coll. Trust 4%	$21,000.00
4,712.50	American Agricultural Chemical Co. 5%	5,000.00
9,550.00	California Gas & Electric Corp. 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
4,582.64	Edison Electric Co. Los Angeles 5%	5,000.00
9,812.50	Illinois Steel Co. 5%	10,000.00
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
4,781.25	Mass. Electric Co. 4½%	5,000.00
5,100.00	Mass., State of, 3%	5,000.00
10,000.00	Mass., State of, 3½%	10,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
9,625.00	United States Steel Corp. 5%	10,000.00
9,800.00	United Electric Securities 5%	10,000.00
10,150.00	Tacoma Railway & Power Co. 5%	10,000.00
$145,504.03		$148,000.00

CONDENSED TRIAL BALANCE, SEPT. 30, 1910.

Assets.

Stocks and Bonds: Investments (book value)	$555,745.48
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Real Estate, 15 Warren Avenue, Somerville	1,992.59
Cash on hand and in Superintendent's hands	5,137.53
	$1,126,217.22

Liabilities.

Capital, including various funds, legacies, etc.	$1,126,217.22
	$1,126,217.22

We have examined the accounts of the Superintendent monthly and the account of the Treasurer for the year ending Sept. 30, 1910, and found the same correct.

PATTERSON, TEELE & DENNIS,
Certified Public Accountants.

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,556.

Of the 3,556 house patients, 2,002 were males and 1,554 were females.

Number of patients treated in Ophthalmic Wards . .	1,646
Number of patients treated in Aural Wards	1,910

Of this number 270 were treated in the Gardner Building for contagious diseases. 137 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average number of patients treated in this building was 16.

Of the total number of patients treated in the wards 1,709 were children under fourteen years of age.

The daily average number of patients treated in the wards was 150.

The largest number of house patients treated on any one day was 195; the smallest number, 104.

Number of free patients admitted	2,153
Paying patients at $1 per week	76
Paying patients at $2 per week	93
Paying patients at $3 per week	218
Paying patients at $5 per week	97
Paying patients at $7 per week	120
Paying patients at $10 per week	674
Patients remaining in wards Sept. 30, 1909	124

The average stay per patient in the hospital under treatment was 15 days.

54,403 days' board was furnished to patients. 13,856 days' was paid, and 40,547 free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,259	Rhode Island	9
Mass. (excepting Boston)	2,145	Connecticut	2
Maine	18	Other States	2
New Hampshire	96	Other countries	13
Vermont	12	Total	3,556

OCCUPATIONS OF HOUSE PATIENTS.

MALES.

Agents	9	Painters and glaziers	22
Bakers	2	Pedlers	91
Barbers	7	Porters	9
Blacksmiths	22	Policeman	1
Book-keepers	2	Piano tuner	1
Butchers	6	Physicians and dentists	3
Butler	1	Plumbers and steam-fitters	7
Carpenters and Wood-workers,	47	Printers and compositors	9
Chauffeurs	2	Proof-readers	2
Clerks	33	Railroad employees	25
Coachmen and hostlers	9	Roofers	3
Cooks	7	Salesmen	10
Druggists	2	Seamen and fishermen	9
Electricians	2	Shippers	3
Engineers	8	Shoemakers	29
Farmers	33	Students	6
Firemen	10	Stone-cutters	27
Gardeners	6	Storekeepers	6
Janitors	7	Tailors	20
Laborers	261	Teamsters	47
Laundrymen	2	Undertaker	1
Machinists	47	Upholsterer	1
Masons	14	Waiters	6
Metal workers and moulders	38	Watchmen	5
Mill and factory operatives	159	Unclassified	9
Musicians	3	Minors	992
Nurse	1		2,002

FEMALES.

Agents	2	Nurses	19
Bookbinders	1	Pedlers	2
Book-keepers	3	Storekeeper	1
Clerks	11	Trance medium	1
Compositor	1	Teacher	1
Domestics	96	Telephone operators	3
Dressmakers and seamstresses,	25	Waitresses	10
Housewives	282	Minors	1,038
Lodging-house keepers	2		1,554
Mill and factory operatives	56		

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

1,847 were well.
1,302 were relieved.
85 were not relieved.
67 left against advice.
8 were not treated.
54 died.
3 eloped.
24 were transferred to other hospitals for other diseases.
165 remaining in hospital Sept. 30, 1910.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 1,182 operations performed in the house, and 2,392 in the Out-patient Department.

In the Aural Departments there were 1,750 operations performed in the house, and 2,105 in the Out-patient Department.

OUT-PATIENT DEPARTMENT.

New patients treated:—			
Ophthalmic:	Males	9,791	
	Females	9,751	
			19,542
Aural:	Males	4,950	
	Females	4,414	
			9,364
	Total		28,906
Old patients treated:—			
	Ophthalmic	18,508	
	Aural	16,695	
			35,203
	Total visits in Out-patient Department		64,109

RESIDENCES OF OUT-PATIENTS.

Boston	13,965	Rhode Island	31
Mass. (excepting Boston)	14,628	Connecticut	8
Maine	55	Other States	11
New Hampshire	141	Other countries	3
Vermont	64		28,906

OCCUPATIONS OF OUT-PATIENTS.

Actors	21	Mill and factory employees.	3,450
Agents	212	Moulders	75
Artists	99	Musicians	71
Barbers	285	Nurses	78
Bakers	99	Painters	660
Blacksmiths	248	Pedlers	784
Bookbinders	244	Pensioners	31
Book-keepers	212	Photographers	52
Butchers	104	Physicians	29
Carpenters	530	Plumbers	131
Clergymen	16	Policemen and letter-carriers,	63
Clerks	1,169	Porters	73
Coachmen and hostlers	41	Railroad employees	653
Compositors and printers	172	Soldiers	45
Domestics	873	Seamstresses	514
Draughtsmen	29	Shoemakers	1,230
Electricians	156	Stenographers	161
Engineers	192	Stone-cutters	296
Engravers	90	Storekeepers	142
Farmers	321	Students	27
Firemen	88	Tailors	772
Fishermen and seamen	258	Teachers	30
Hotel and lodging-house keepers	142	Teamsters	412
Housewives	3,714	Telephone and telegraph operators	68
Laborers	1,957	Waiters	244
Lawyers	29	Wood-workers	555
Masons	57	Unclassified	1,265
Messengers	119	Minors	4,683
Machinists	727		28,906
Milliners	108		

EXPENDITURES FOR 1910.

The total expenditure by the Superintendent has been $102,-197.22, which is itemized as follows:—

Provisions		$20,009.79
Meat, fish, and poultry	$7,398.54	
Fruit and vegetables	2,127.85	
Bread and flour	1,362.00	
Milk	3,208.86	
Groceries	3,423.80	
Butter and eggs	2,488.74	
Wines, liquors, and alcohol		293.89
Water rates		1,420.10
Hospital	$1,237.20	
Nurses' Home	182.90	
Soap and soap powder		622.96
Gas and electric lighting		1,142.70
Gas (hospital)	$323.64	
Gas and electric lighting (Nurses' Home)	819.06	
Ice		849.60
Heat, light, and power		4,775.29
Fuel		1,082.09
Kitchen	$404.61	
Nurses' Home	677.48	
Medicines and drugs		4,474.32
Furniture and bedding		1,060.65
Stationery and printing		1,082.40
Wages		46,588.70
Officers	10,724.90	
Clerks (Superintendent's office, Social Service Department, Out-patient Department, and telephone)	2,720.26	
Engineers	1,240.00	
Carpenter and painters	2,220.30	
Laboratory assistant	540.00	
Ward masters, orderlies, and porters	8,238.36	
Apothecary assistants	957.55	
Elevator man	300.00	
Janitor (Nurses' Home)	420.00	

Head nurses, operating-room nurses, and etherizer	4,610.56	
Post-graduate nurses'	1,093.29	
Special nurses'	1,248.16	
Attendant nurses	4,635.32	
Housekeeper	783.89	
Kitchen and dining-room employees	2,492.60	
Laundresses	2,084.14	
General women	2,066.39	
Seamstresses	212.98	
Optical and surgical instruments and instrument repairs		890.72
Spectacles and eyeglasses furnished free to wards of the State of Massachusetts		454.15
Repairs and improvements		7,139.97
Plumbing and plumbing alterations	$569.03	
Laundry plant	359.03	
New metallic cabinet dry room in laundry	625.00	
Steam plant	428.52	
Electric plant	282.29	
Sterilizing apparatus	24.10	
Carpentering and alterations	1,084.51	
Painting and glazing	634.22	
Kitchen cooking apparatus and new dough-mixer	352.57	
Elevators and dumb-waiters	128.11	
Furniture and bedding	155.39	
Locks, keys, hardware, and gas fixtures	391.93	
Care of ward floors	155.00	
Sewing-machine	49.00	
Roofing	54.29	
Toilet accessories Nurses' Home)	184.58	
Window grills (Nurses' Home)	189.00	
Alterations officers dining-room floor and apothecary storeroom	383.81	
Animal cages and pens, laboratory	54.35	
Window screens, laboratory	123.51	
Case in linen-room and specimen cases in laboratory	117.00	
Grounds	297.73	
Signs	70.00	
Incinerating plant	427.00	
House, ward, and surgical supplies		8,260.90
Kitchen and dining-rooms	100.34	
Linen-room	1,053.16	

Surgical supplies	4,777.00	
Ward supplies	457.16	
Bacteriological laboratory supplies	210.76	
Laundry and general supplies	876.04	
Uniforms:		
Doctors	144.00	
Orderlies	116.16	
Patients	526.28	
Contingent and sundries		2,048.99
Sundries and training school	459.10	
Surgeons' library	133.57	
Nurses' library	27.08	
Postage and express	162.76	
Telephone	914.65	
Laboratory	7.33	
Advertising	40.00	
X-ray plates (Mass. General Hospital)	188.25	
Office	116.25	

The value of stock on hand Oct. 1, 1910, was:—

House and surgical supplies	$6,142.36	
Drugs and medicines	2,456.80	
Provisions	586.00	
	$9,185.16	
The value of stock on hand Oct. 1, 1910, was		$9,185.16
The value of stock on hand Oct. 1, 1909, was		7,728.87
		$1,456.29

Deducting the difference in value of stock on hand Oct. 1, 1910, $1,456.29, and Oct. 1, 1909, gives the cost of maintenance per house patient per week as $12.88. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $20,009.79.

The daily average number of patients was 150; of officers and employees, including house and nursing staff, 119; or a total daily average of 274 persons. The number of weeks' board of all persons was 14,287, and the weekly cost per person for uncooked food supplies was $1.40, or 20 cents per day.

LIVING ROOM. NURSES' HOME.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 149 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, and Throat, Clinical Diseases and Surgery of the same, Refraction, Aural and Ophthalmic Nursing, and special nursing of Brain Abscess, the Ear in Art and History, the Hospital Formulary, Contagious Diseases, Method of Teaching the Blind, Teaching the Deaf, the Care of Infants, and the Nurse as a Social Worker. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, and the preparation of infants' food.

The number of post-graduate and pupil nurses taking the course was 21. 19 graduates received the diploma of the school. 39 applications for the course were received during the year.

In addition to the regular special training, instruction in hospital management has been inaugurated. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head nurses. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1901, to Oct. 1, 1910, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-Patients Aural.*	*Total.*
1901	1,538	840	21,880	7,170	31,428
1902	1,483	750	22,839	7,180	32,252
1903	1,548	975	23,614	7,876	34,013
1904	1,546	1,269	23,943	8,782	35,540
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,353	8,213	34,482
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
1910	1,646	1,910	19,542	9,364	32,462
Totals .	15,571	13,242	223,169	85,000	336,982

A total of 308,169 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 924,507.

Respectfully submitted,

FARRAR COBB, M.D.,
Superintendent.

REPORT OF THE FULL BOARD OF SURGEONS.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—As a result of important changes made during the past year, the Infirmary work has been carried on under conditions more favorable than ever before.

In the new wards and operating-rooms which were opened at the beginning of the year, accommodations have been provided for the large number of nose and throat operations which for several years have overtaxed the capacity of the Aural Department. A special ward has also been placed at the disposal of the Tuberculosis Department, and is devoted exclusively to the treatment of tubercular patients. This department, which was organized less than two years ago, has already become an important factor at the Infirmary, and the success of its out-patient work in connection with the Social Service Department is particularly gratifying.

An important change has been made in the Ophthalmic Department, the working force of which has been increased by the appointment of six Junior Assistant Surgeons, one for each service. With this additional force available, the problem of handling the Out-patient Clinic in a satisfactory manner has been greatly simplified, except in the vision-room, the capacity of which has been taxed far above its limit by an unexpected increase in the number of refraction cases as compared with the year before. In 1909 there were about 7,500 refraction cases, while this year there were nearly

10,000,—an increase of 2,500 cases, or 33 per cent., although the total number of patients treated in the Eye Clinic this year was about 2,800 less than in 1909.

The unavoidable delays which occur frequently under the present arrangement with the Massachusetts General Hospital for X-ray diagnosis, and the fact that it gives practically no opportunity for the *treatment* of Infirmary patients, are serious disadvantages. As a remedy, we would suggest the advisability of equipping the Infirmary with the apparatus necessary for this work.

For the Full Board of Surgeons,

EDWARD M. PLUMMER.
HENRY H. HASKELL.

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—The new laboratory has now been occupied for almost a year, and has proved most satisfactory. As was anticipated, the daylight illumination has been found superior even to that of the old laboratory. The heating arrangement has not given entire satisfaction, but it is believed that recent modifications will, in great part, overcome the difficulty.

During the interval of about four months between the abandonment of the old laboratory and the completion of the new, only the more important pathological and bacteriological work could be undertaken. The material accumulated during this time, however, was preserved and is now being studied. The investigations made during the past year, especially those relating to tuberculosis and syphilis of the eyes, have yielded some unusually interesting and important results. Some of this work has already been published.

The need of an endowment primarily for research work, to which special reference has been made in previous reports, is, of course, still keenly felt.

Publications:—

"A Rapid Method of Staining the Trachoma Bodies of Halberstaeder and Prowazek." F. H. Verhoeff, *The Ophthalmic Record*, 1909.

"Tumor of the Adrenal Gland with Metastases in the Orbit." A. Quackenboss. Pathological Examination by

F. H. Verhoeff. *American Ophthalmological Transactions*, 1910.

"New Growths of the Lachrymal Gland." A Case. Death. E. E. Jack, *Ibid.*

"The Histological Findings in a Case of Tuberculous Cyclitis, and a Theory as to the Origin of Tuberculous Scleritis and Keratitis." F. H. Verhoeff, *Ibid.*

"Tumor of the Hypophysis (with Infantalism)." S. J. Mixter and A. Quackenboss. Pathological Examination by F. H. Verhoeff. *Annals of Surgery*, 1910.

"A New Instrument for Producing a Subconjunctival Fistula." F. H. Verhoeff, *The Ophthalmoscope*, 1910.

FREDERICK H. VERHOEFF, M.D.,
Pathologist.

Oct. 27, 1910.

INTERIOR PATHOLOGICAL LABORATORY.

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 278 patients were treated in the special wards of the Gardner Building. Of these there were 123 cases of gonorrhœal ophthalmia, 15 occurring in adults, 10 in children, and 98 in infants soon after birth. There were 69 cases of purulent ophthalmia, non-gonorrhœal: 11 of these were in adults, 15 in children, and 43 in infants. At the time of entrance the cornea was involved in 17 of the gonorrhœal cases, of which 2 were in adults, 2 in children, and 13 in infants. The cornea became involved in but 2 cases after admission. At the time of entrance the cornea was involved in 5 cases of purulent ophthalmia, of which 1 was an adult and 4 were in children.

5 cases of specific iritis with active secondary lesions of the disease were treated. There were also 3 cases of diphtheritic conjunctivitis, 1 gonorrhœal metastitic ophthalmitis, 1 case of gumma of the ciliary region, 1 case of gumma of the iris, and 9 cases af trachoma.

66 patients were transferred to the Gardner Building for measles, scarlet fever, pertussis, erysipelas, and other infectious diseases which manifested themselves in the general wards of the hospital.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.	
Conjunctivitis:	
acute	8
chronic	3
diphtheritic	3
follicular	7
gonorrhœal:	
in adults	20
in children	15
in infants	154
membranous	2
phlyctenular	16
purulent:	
in adults	15
in children	24
in infants	80
spring	2
trachomatous	32
with pannus	21
Cicatrix	3
Gonorrhœal metastatic ophthalmitis	2
Lupus	1
Laceration of conjunctiva	9
Lymphoid hypertrophy	2
Pemphigus	2
Pterygium	6
Symblepharon	6
Tumor:	
epithelioma	1
melanotic sarcoma	3
Xerosis	2
Total	439

Cornea.	
Abscess	10
Foreign body	9
Keratitis:	
bullous	1
dendritic	6
fascicular	5
interstitial	42
marginal	1
neuropathic	65
phlyctenular	70
simple	3
superficial	1
syphilitic	1
traumatic	8
tubercular	10
ulcerative	73
with hypopyon	60
with perforation	6
zerotic	2
Kerato-conus	1
Kerato-iritis	12
Kerato-scleritis	10
tubercular	10
Leucoma	4
adherent	4
inflamed	2
Staphyloma	18
with prolapsed iris	3
Epithelioma	1
Total	438

Glaucoma.

Absolute	14
Acute	27
Chronic	42
Hemorrhagic	7
Secondary	9
Simplex	5
Hydrophthalmos	7
Total	111

Globe and Orbit.

Abscess of brow	1
Abscess of orbit	3
Angioma of orbit	1
Contracted orbit	1
Contusion of orbit	1
Cysts of orbit	2
dermoid	2
Disorganized globe	12
Exophthalmos	8
Hemorrhage of orbit	1
Injury to brow	1
Panophthalmitis	8
Phthisis bulbi	26
Siderosis bulbi	1
Sympathetic ophthalmia	14
Tumors:	
carcinoma	1
gumma	7
sarcoma	12
melanotic	1
Total	103

Injuries.

Burns:	
cornea	18
conjunctiva	8
conjunctiva and cornea	8
conjunctiva and lids	5
cornea and lids	6
Laceration of lids	1
Non-penetrating:	
globe	31
with exophthalmos	1
with hyphæmia	1
with irido-dialysis	1
lids	1
Penetrating:	
cornea	38
with foreign body	19
and prolapsed iris	16
with prolapsed iris	13
cornea and iris	19
with foreign body	3
cornea and lens	20
cornea, iris, and lens	30
with foreign body	7
with hemorrhage into vitreous	2
ciliary region	32
with foreign body	1
sclera	29
with foreign body	6
with prolapse of vitreous	1
Total	317

Iris, Choroid, and Ciliary Body.

Angioma	1
Aniridia, congenital	2
Blocked pupil	25
Choroiditis	11
Coloboma, congenital	3
Cyst of iris	1
Disseminated choroiditis with vitreous opacities	2
Gumma of ciliary region	1
Gumma of iris	4
Irido-cyclitis	12
Irido-dialysis	3
Iris bombé	4
Iritis:	
auto-toxic	2
gonorrhœal	1
neuropathic	6

rheumatic	26
simple	11
with hypopyon	10
syphilitic	37
traumatic	12
tubercular	11
Sarcoma of choroid	1
Uveitis	8
Total	194

Lachrymal Apparatus.

Abscess	10
Dacryo-cystitis:	
acute	13
chronic	43
chronic with fistula	6
Fistula	1
Obstruction	1
New growth	1
Total	75

Lens.

Cataract:	
capsular	62
congenital	73
posterior polar	4
hypermature	11
immature	127
mature	259
pre-senile	2
traumatic	63
Dislocated lens:	
into anterior chamber	8
into posterior chamber	6
High myopia	6
Total	621

Lids.

Abscess	6
Chalazion	1
Cicatrix	3
Cysts	2
dermoid	1
Ectropion	14
Entropion	11
Epithelioma	17
Ptosis	3
congenital	8
Trichiasis	8
Wen	2
Total	76

Muscle and Nerve Affections.

Exo-hyperphoria	1
Hyperphoria	2
Herpes zoster ophthalmicus	3
Nystagmus	7
Paralysis of abducens	1
Paralysis of motor oculi	1
Strabismus:	
convergent	41
divergent	14
Tenonitis	4
Total	74

Optic Nerve.

Amaurosis	1
Atrophy	5
Amblyopia:	
hysterical	1
toxic	1
Neuritis:	
optic	6
retrobulbar	2
Neuro-retinitis	1
Total	17

Retina.

Chorio-retinitis	1
Glioma	5
Obstruction central artery	1
Pseudo-glioma	1
Retinitis proliferans	1
Separation of retina	16
Total	25

SCLERA.

Episcleritis	1
Rupture	4
Scleritis, tubercular	3
Staphyloma	9
Ulcer, tubercular	1
Total	18

MISCELLANEOUS.

Arthritis, gonorrhœal	1
Asthma	2
Bronchitis, acute	4
Chicken-pox	1
Delirium tremens	9
Diabetes	11
Diphtheria	2
Ethmoiditis	1
Erysipelas, facial	3
Frontal sinusitis	3
Influenza	4
Measles	3
Mitral insufficiency	2
Meningitis, tubercular	1
Marasmus	2
Nephritis, acute	1
Neuralgia, supra-orbital	1
Paralysis, facial	1
Parotitis	4
Pertussis	2
Pneumonia, broncho-	1
Rhinitis, purulent	2
Rheumatism	7
Scabies	21
Scarlet fever	2
Syphilis	7
Tabes dorsalis	1
Tonsillitis, follicular	2
Trichiniasis	1
Total	102

SUMMARY.

Conjunctiva	439
Cornea	438
Glaucoma	111
Globe and orbit	103
Injuries	317
Iris, choroid, and ciliary body	194
Lachrymal apparatus	75
Lens	621
Lids	76
Muscle and nerve affections	74
Optic nerve	17
Retina	25
Sclera	18
Miscellaneous	102
Total	2,610

OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Pterygium	6
Removal of powder	9
Stripping	27
Suturing	7
Symblepharon	5
Total	54

Cornea.

Cauterizing kerato-conus	1
Paracentesis	16
Removal of powder	16
Saemisch	47
Section for foreign body	5
Tattooing	1
Total	86

Enucleations.

Disorganized globe	12
Glaucoma absolutum	16
Injury	35
Irido-cyclitis	2
Iritis	2
Panophthalmitis	6
Phthisis bulbi	19
Staphyloma	7
Sympathetic ophthalmia	4
Tumor of globe	14
Total	117

Evisceration.

Simple	10
Insertion of glass ball	14
Total	24

Iris.

Iridectomy:	
glaucoma	35
optical	28
anterior synechiæ	6
Iridotomy	4
Prolapsed iris abscised	38
replaced	2
Sclerotomy	12
Total	125

Lachrymal Apparatus.

Abscess evacuated	8
Curettage of sac	2
Extirpation of sac	46
Probing of duct	4
Tumor excised	1
Total	61

Lids.

Abscess evacuated	6
Ectropion	10
Entropion	6
Green's	4
Plastic	12
Ptosis:	
Hess	3
Panas	1
Tumor excised	6
Wound sutured	7
Total	55

Muscles.

Advancement:	
external rectus	32
internal rectus	12

Tenotomy:	
external rectus	13
internal rectus	27
superior rectus	1
Total	85

ORBIT.

Abscess evacuated	2
Bands removed	1
Exenteration	7
Thiersch graft	6
Tumor excised	4
Total	20

SCLERA.

Anterior ciliary angiotomy	2
Sclerotomy	4
with magnet	19
Total	25

LENS.

Capsulotomy	58
Discission	92
Cataract extraction:	
in capsule	16
in capsule form with iridectomy	16
simple	12
with buttonhole of iris	38
with iridectomy	196
with modified iridotomy,	4
with scoop	7
suction	16
Total	455

MISCELLANEOUS.

Adenectomy	1
Foreign body in anterior chamber	12
Lagrange operation	4
Magnet test	28
removal of intra-ocular steel	36
Total	81
Total number of operations	1,188

OUT-PATIENT OPERATIONS.

Abscess of brow	2
Abscess of lid	28
Chalazion	164
Electrolysis	34
Foreign body in conjunctiva	112
Foreign body in cornea	1,812
Foreign body in lid	179
Foreign body in limbus	4
Hordeolum	31
Lachrymal abscess	2
Pterygium	22
Septic wound of brow	2
Total	2,392

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Accommodation and Refraction.

Asthenopia	2
Astigmatism	2,635
Emmetropia	115
Hypermetropia	2,765
Myopia	437
Presbyopia	1,129
Total	7,083

Conjunctiva.

Conjunctiva, abrasion of	14
burn	53
chemosis	29
cyst	10
ecchymosis	63
foreign body	91
hemorrhage	82
herpes bulbar	6
laceration	19
lymphoid hypertrophy	7
injury	2
œdema	9
pinguecula	26
pterygium	54
ulcer	1
vernal catarrh	5
Foreign body in limbus	4
Conjunctivitis, acute	1,884
chronic	237
blepharo	10
eczematous	7
follicular	98
gonorrhœal	123
muco-purulent	96
phlyctenular-kerato	3
phlyctenular	389
purulent	8
trachomatous	120
with pannus	33
traumatic	27
Total	3,510

General Injuries, and Burns.

Injuries	307
Burns	68
Total	375

Cornea and Sclera.

Cornea, abrasion of	151
abscess	1
burn	49
conical	3
ex acne rosacea	2
foreign body	1,720
herpes	4
herpes fibrialis	5
infiltration	23
injury	90
leucoma	83
adherent	22
inflamed	10
maculæ	110
nebulæ	101
opacities	19
perforating ulcer	1
phlyctenular ulcer	5
scars	137
staphyloma	13

Episcleritis	30
Keratitis	57
with hypopyon	4
with pannus	3
bullous	2
dendritic	17
fascicular	5
interstitial	69
marginal	16
neuropathic	37
phlyctenular	362
punctate	15
recurrent	6
superficial	19
tubercular	3
traumatic	18
ulcerative	388
with hypopyon	51
Kerato-iritis	8
Sclero-keratitis	8
Scleritis	12
tubercular	3
Sclera, injury of	5
foreign body	9
Total	3,696

Glaucoma.

Glaucoma, absolute	3
acute	45
chronic	21
secondary	7
simplex	8
hydrophthalmus	2
Total	86

Globe.

Globe, atrophy of	3
contusion	16
foreign body	19
injury	2
rupture	4
Disorganized globe	12
Exophthalmos	10
Panophthalmitis	5
Phthisis bulbi	24
Total	95

Iris, Ciliary Body, and Choroid.

Albinism	2
Choroid, atrophy of	3
coloboma	1
disseminated	3
foreign body	1
rupture	2
Choroiditis	33
specific	7
Ciliary injection	17
Iris, coloboma	11
cyst	1
injury	6
prolapse	26
synechia anterior	5
posterior	9
Irido-dialysis	4
Irido-donesis	8
Irido-cyclitis	6
Pupil, mydriasis	28
artificial	21
occlusion	3
exclusion	7
Iritis	184
chronic	15
gonorrhœal	11
plastic	41
recurrent	2
rheumatic	27
specific	25
tubercular-kerato	1
traumatic	7
serous	2
Iritis with hypopyon	2
Total	521

Lachrymal Apparatus.

Abscess	50
Dacryo-cystitis	106
Epiphora	123
Fistula	1

Lachrymal obstruction	50
Mucocele	42
Stenosis	2
Total	374

Lids.

Abscess	46
Blepharitis	506
Burns	13
Chalazion	466
Cyst	14
Dermatitis	14
Distichiasis	12
Ecchymosis	52
Ectropion	39
Eczema	21
Entropion	23
Epicanthus	4
Epithelioma	4
Foreign body	166
Granulation	7
Growth	1
Hordeolum	185
Lagophthalmos	4
Milium	7
Œdema	41
Pediculosis	3
Ptosis	43
Trichiasis	36
Verruca	5
Wen	12
Wound	44
Total	1,768

Lens.

Aphakia	24
Cataract:	
anterior polar	3
capsular	1
congenital	24
hypermature	10
immature	98
incipient	259
mature	110
posterior cortical	7
posterior polar	2
traumatic	41
Lens, dislocated	23
injury	8
foreign body	2
opacities	98
Total	710

Muscular Affections and Neurosis.

Argyll-Robertson pupil	2
Blepharospasm	2
Diplopia	12
Esophoria	5
Exophoria	6
Exophthalmic goitre	6
Herpes zoster	16
Nictitation	2
Nystagmus	60
Paralysis, unclassified	7
facial	17
external rectus	18
internal rectus	13
third nerve	18
Strabismus, alternating	26
convergence	299
divergence	94
Supra-orbital neuralgia	3
Total	606

Optic Nerve and Retina.

Amblyopia	36
toxic	37
tobacco	2
Amaurotic family idiocy	1
Neuritis	7
Neuro-retinitis	7
Optic nerve, atrophy of	52
Retina, coloboma	1
degenerative changes in macular region	5
foreign body	1
hemorrhage	24
obstruction central artery,	5
papillitis	1
separation	32

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

Chorio-retinitis	13
Retinitis	6
albuminuric	2
hemorrhagic	3
pigmentosa	1
proliferans	1
specific	1
Total	238

ORBIT.

Orbit, abscess	2
tumor	2
Total	4

VITREOUS.

Hyalitis	1
Muscae volitantes	2
Vitreous, foreign body in	2
hemorrhage	24
opacities	126
webs	13
Total	168

MISCELLANEOUS.

No disease	31
No diagnosis	33
Visions not refracted	960
Referred to other institutions,	470
Referred to nose-room	164
Referred to ear-room	48
Unfit	418
Total	2,124

OTHER DISEASES.

Abscess of brow	2
Arterio-sclerosis	8
Hematoma of cheek	1
Eczema	18
Frontal sinus	8
Irritation	44
Tumor of brow	1
Total	82

SUMMARY.

Accommodation and refraction	7,083
Conjunctiva	3,510
General injuries	375
Cornea and sclera	3,696
Glaucoma	86
Globe	95
Iris, ciliary body, and choroid	521
Lachrymal apparatus	374
Lids	1,768
Lens	710
Muscular affections and neurosis	606
Optic nerve and retina	238
Orbit	4
Vitreous	168
Miscellaneous	2,124
Other diseases	82
Total	21,440

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

	R.	B.	L.
Lop ear	0	1	0
Pre-auricular abscess	0	0	1
Sub-auricular abscess	1	0	0
Microtia	0	1	0
Perichondritis	1	0	0

II. DISEASES OF THE MEATUS.

Otitis externa diffusa	4	1	5
Otitis externa circumscripta	3	0	3
Otitis externa circumscripta with erysipelas	1	0	1
Otitis externa diffusa with exostosis	1	0	0
Exostosis	0	0	1
Otitis externa circumscripta with sub-auricular abscess	1	0	0

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Inflammations.*

Otitis media acuta	3	0	2
Otitis media acuta, cervical adenitis	1	0	1

b. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta	8	7	7
with otitis externa circumscripta	6	1	6
otitis externa diffusa	3	0	2
post-auricular adenitis	1	0	0
cervical adenitis	3	1	4
follicular tonsillitis	0	0	1
otitis externa circumscripta with erysipelas	2	0	1
double ethmoiditis and antrum	1	0	0

	R.	B.	L.
arthritis	0	0	1
measles, parotitis, and metastatic abscess	1	0	0
otitis externa circumscripta with nephritis	1	0	0
cervical abscess	1	0	0
impetigo contagiosa	1	0	0
meningitis	1	0	1
bronchitis	1	0	0
mastoiditis	73	8	82
mastoiditis and post-aural abscess	12	1	19
mastoiditis and extradural abscess	2	0	1
mastoiditis and cervical adenitis	2	0	0
mastoiditis and thrombosed lateral sinus	2	0	0
mastoiditis and furunculosis	9	0	4
mastoiditis and meningitis	0	0	1
mastoiditis and perisinous abscess	12	0	8
mastoiditis and Bezold abscess	1	0	2
mastoiditis with Bezold and perisinous abscesses	2	0	0
mastoiditis and post-aural sinus	0	0	1
mastoiditis and facial paralysis	0	0	2
mastoiditis, extradural abscess, meningitis, and hemiparesis	0	0	1
mastoiditis and furunculosis and perisinous abscess	1	0	0
mastoiditis with furunculosis and erysipelas	1	1	3
mastoiditis and specific arthritis	1	0	0
mastoiditis, post-aural, perisinous, and extradural abscesses	1	0	1
mastoiditis, thrombosed lateral sinus, meningitis, and delirium tremens	0	0	1
mastoiditis, thrombosed lateral sinus, and metastatic abscesses	2	0	0
mastoiditis, post-aural abscess, and scarlet fever	1	0	1
mastoiditis and eczema of auricle	0	0	1
mastoiditis, meningitis, facial paralysis and labyrinthitis	0	0	1
mastoiditis, thrombosed lateral sinus, and perisinous abscess	0	0	3
mastoiditis and metastatic abscess of knee	0	0	1
mastoiditis, thrombosed lateral sinus, extradural abscess, and pachymeningitis	0	0	1
mastoiditis and bronchitis	0	0	1
mastoiditis, Bezold abscess, and diabetes	0	0	1
mastoiditis, post-aural and perisinous abscesses	1	0	1
mastoiditis and pregnancy	0	0	1

	R.	B.	L.
mastoiditis, Bezold abscess, and facial erysipelas .	0	0	1
mastoiditis with abscess of tempero-sphenoidal lobe and erysipelas	1	0	0
mastoiditis, post-aural abscess, and pertussis . . .	0	0	1
mastoiditis, facial paralysis, chronic nephritis, erysipelas, and syphilis.	1	0	0
mastoiditis recurrent	12	0	10
mastoiditis recurrent and perisinous abscess . . .	1	0	0
mastoiditis recurrent with Bezold abscess	1	0	0
mastoiditis recurrent with cholesteatoma	11	0	0
mastoiditis recurrent and peritonsillar abscess . .	0	0	1
mastoiditis recurrent, cerebellar hernia, and abscess	1	0	0
mastoiditis recurrent, depressed skull fracture . .	0	0	1
mastoiditis recurrent, tempero-sphenoidal abscess, and tubercular meningitis	0	0	1

c. *Chronic Suppurative Inflammations.*

Otitis media suppurativa chronica	7	5	10
with polypi	2	0	1
polypi and facial paralysis	0	0	1
polypi and pre-auricular abscess	1	0	0
polypi and exostosis	1	0	0
impetigo contagiosa	0	0	1
cervical adenitis	3	0	0
radical cavity	1	0	0
meningitis	1	0	0
mastoiditis and erysipelas	0	0	2
mastoiditis and suppurating post-aural sinus . . .	1	0	0
mastoiditis and atresia of external auditory canal .	0	0	1
mastoiditis with cerebellar abscess and meningitis,	1	0	0
mastoiditis and bone sequestrum in canal	0	0	1
mastoiditis, perisinous abscess, cholesteatoma, and facial erysipelas	0	0	1
mastoiditis, post-aural, extradural, and perisinous abscesses, cerebellar abscess, thrombosed sinus,	1	0	0
mastoiditis recurrent	0	0	3
mastoiditis recurrent with meningitis	0	0	1
mastoiditis recurrent with cholesteatoma and facial paralysis	0	0	1
mastoiditis	4	0	12
mastoiditis and facial paralysis	0	0	1
mastoiditis, thrombosed lateral sinus, cerebellar abscess, and meningitis	1	0	0

	R.	B.	L.
mastoiditis, tempero-sphenoidal abscess, and meningitis	0	0	2
mastoiditis, thrombosed lateral sinus, perisinous abscess, and abscess of neck	0	0	1
mastoiditis and post-aural abscess	1	1	2
mastoiditis and cholesteatoma	2	0	3
mastoiditis, facial paralysis, and erysipelas	0	0	1
mastoiditis and otitis externa diffusa	1	0	0
mastoiditis and perisinous abscess	0	0	2
mastoiditis, facial erysipelas, meningitis, purulent conjunctivitis, and rhinitis	0	0	1
mastoiditis, thrombosed lateral sinus, cerebellar abscess, and pyæmia	1	0	0
mastoiditis, perisinous abscess, and septicæmia	0	0	1
mastoiditis and cervical adenitis	0	0	1
mastoiditis, cholesteatoma, and facial erysipelas	0	0	1

IV. DISEASES OF THE INTERNAL EAR.

Acute suppurative labyrinthitis	1	0	0
Chronic suppurative labyrinthitis	0	0	2
Syphilitic labyrinthitis	0	2	0
Chronic labyrinthitis	0	2	0

V. DISEASES OF NOSE AND THROAT.

Tonsils and adenoids	0	1,049	0
Tonsils	0	48	0
Adenoids	0	147	0
Deviation of septum	0	17	0
Fracture of nose (old)	0	11	0
Deviation of septum with hypertrophical turbinates	0	8	0
Abscess of septum	0	1	0
Hypertrophic inferior turbinates	1	2	0
Depression of nasal bones following septal abscess	0	1	0
Traumatic swelling of nose	0	1	0
Hyperplastic middle turbinates	0	2	0
Hyperplastic middle turbinates with polypi	0	1	0
Fracture of nose (old) with erysipelas	0	2	0
Nasal polypi	0	1	0
Post-nasal polypi	0	1	0
Deviation of septum with atrophic rhinitis	0	1	0
Dermoid cyst of septum	0	1	0
Peritonsillar abscess	0	3	0

	R.	B.	L.
Ranula	2	2	0
Follicular tonsillitis	0	9	0
Acute laryngitis	0	1	0
Specific laryngitis	0	1	0
Chronic adhesions of larnyx	0	1	0
Stenosis of larynx (partial)	0	1	0
Traumatic œdema of larnyx	0	1	0
Foreign body in left pyriform sinus	0	1	0
Retro-pharyngeal abscess	0	1	0
Cleft palate	0	3	0
Cleft palate (partial)	0	1	0
Papilloma of cords	0	1	0
Syphilis of soft palate	0	1	0
Peritonsillar abscess, acute œdema of larynx with nephritis and facial erysipelas	0	1	0
Traumatic laceration of soft palate	1	0	0

VI. DISEASES OF ACCESSORY SINUSES.

a. *Frontal Sinus.*

Frontal sinusitis acuta	3	2	0
with tri-facial neuralgia, tic-douloureux, and pregnancy,	0	0	1
Frontal sinusitis chronica	3	1	1
with ethmoiditis	2	0	0
ethmoiditis and antrum	2	0	0
orbital abscess	2	1	1
Fibro-sarcoma of frontal sinus and ethmoids	0	1	0

b. *Antrum of Highmore.*

Chronic	2	0	1

c. *Ethmoidal Sinuses.*

Chronic ethmoiditis with nasal polypi	0	2	1
with sphenoiditis	0	1	0

VII. MISCELLANEOUS.

Sarcoma of neck	0	1	0
Cervical Pott's disease with retro-pharyngeal abscess	0	1	0
Measles with post-aural suppurating glands	0	1	0
Carcinoma of œsophagus	0	2	0
Tri-facial neuralgia	0	0	1
Cervical adenitis	1	0	0

	R.	B.	L.
Cervical abscess	0	0	6
Convalescing mastoid wound	7	0	5
Convalescing mastoid wound with facial paralysis and meningitis	0	0	1
Convalescing mastoid wound with erysipelas	0	0	1
Convalescing mastoid wound with post-aural sinus	0	0	1
Convalescing mastoid wound with varicella, pertussis, and dacryo-cystitis	0	0	1
Convalescing mastoid wound with bronchitis	1	0	0
Convalescing mastoid wound with brain abscess	0	0	1
Convalescing mastoid wound with facial paralysis	0	0	1
Convalescing radical cavity with acute articular rheumatism	1	0	0
Convalescing radical cavity with polyp	0	0	1
Convalescing radical cavity with suppuration	1	0	0
Diphtheria	0	1	0
Scabies	0	1	0
Measles	0	2	0
Lacerated wound of foot	0	1	0
Sarcoma behind lobule	0	0	1
Tubercular adenitis	0	0	1
Maniacal depressive insanity	0	1	0
Post-operative hemorrhage	0	1	0
Erysipelas of scalp	0	1	0
Malignant neuroma of temporal bone with facial paralysis and erysipelas	0	1	0
Dacryo-cystitis	0	1	0
Broken down infarct of right frontal lobe	1	0	0
Cephalalgia	1	0	0
Pulmonary embolism	0	1	0
Hæmophilia	0	1	0
Bromidism	0	1	0
Unhealed mastoid cavity	0	1	0
Erythema simplex	0	1	0
Bulbar paralysis	0	1	0
Broncho-pneumonia with epidemic parotitis	0	1	0
Sarcoma of temporal bone and pharynx	0	1	0
Old fracture malar bone with dacryo-cystitis	1	0	0
Foreign body in œsophagus	0	1	0
Diagnosis deferred	0	1	0

AURAL OPERATIONS.

Part. Disease. Operation.

	R.	B.	L.
Abscess of lobe incised	3	0	2
Cyst excised	2	0	4
Othæmatoma incised	0	0	1
Tumor removed	1	0	0
Lop ears	1	0	0
Hæmatoma incised	0	0	1
Papilloma tragus removed	1	0	0
Pre-auricular abscess incised	2	0	1
Plastic	1	0	0

2. Meatus.

Abscess incised	45	2	47
Circumscribed abscess incised	51	2	42
Foreign body removed	3	0	2

3. Tympanum.

Drum membrane, paracentesis	652	311	581
Carious ossicles removed	11	1	2
Carious ossicles and ethmoids removed	0	2	0
Granulations in tympanum removed	1	0	1
Polyp removed	47	1	41

4. Nose, Throat, and Pharynx.

Abscess septum incised	0	1	0
Nose, spur removed	0	9	0
turbinate removed	0	82	0
turbinate and ethmoid cells curetted	0	2	0
tumor removed	0	1	0
polypus removed	0	25	0
polypus and ethmoids curetted	0	1	0
pustule incised	0	1	0
plastic	0	2	0
Naso-pharynx, adenoids removed	0	194	0
adenoids and tonsils removed	0	1,077	0
adenoids and tongue-tie freed	0	1	0
adenoids and fibrous polyp removed	0	2	0
Adenoids and curettement of Eustachian tube	0	2	0
Tonsils removed	0	22	0

	R.	B.	L.
Sub-mucous operations (spurs and septum)	0	163	0
Sub-mucous operation (adenoids removed)	0	1	0
Sub-mucous operation and polyp removed	0	1	0
Abscess nose incised	0	1	0
Papilloma tip of uvula removed	0	1	0
Polyp middle turbinate removed	0	1	0
Furunculosis vestibule of nose incised	0	2	0
Alveolar abscess incised	0	1	0
Intubation	0	2	0
Frontal sinus	12	0	3
Killian operation	6	0	1
Radical antrum	2	0	0
Ethmoids curetted	0	4	0
Peritonsillar abscess incised	0	13	0
Antrum opened	0	5	0
Sarcomatous tissue œsophagus removed	0	2	0
Exploration of temporal sphenoid	0	2	0
Hæmatoma septum incised	0	1	0
Large sequestrum nose removed	0	1	0

5. Mastoid Region.

Abscess, post-aural, incised	13	0	16
Cervical abscess incised	2	0	0
Cervical glands incised	21	0	7
Mastoid operations (acute)	102	1	107
Mastoid operation with cervical glands	1	0	1
Mastoid operation with ligation of jugular	3	0	7
Mastoid operation with brain abscess	5	0	5
Ligation of jugular vein	0	6	0
Post-aural tumor removed	1	0	0
Radical mastoid operation	11	0	13
Radical mastoid operation with extradural abscess	2	0	0

Miscellaneous Operations.

Incision neck sutured	0	0	1
Ranula curetted	0	1	0
Removal of three accessory auricles, freeing tongue-tie	0	1	0
Opening of nasal wall of lachrymal ducts	0	1	0
Extraction of foreign body from œsophagus	0	1	0
Removal of growth from vocal cord	0	2	0
Exploration of tear sac, fracture of malar bone reduced	0	1	0
Various operations	5	0	3
Cleft-palate operation	0	3	0

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L.
Abscess	1	0	2
Abscess of lobe	5	0	6
Abscess of tragus	0	0	1
Pre-auricular abscess	1	0	1
Congelatio	2	0	1
Dermatitis	4	0	2
Eczema	49	30	43
Erysipelas	2	0	1
Hæmatoma	1	0	2
Intertrigo	1	0	3
Perichondritis	1	0	1

b. *Deformities.*

Microtia	6	2	6
Microtia with atresia canal	0	0	2
Congenital fistula of auricle	1	0	0
Congenital lop ears	0	6	0

c. *Neoplasms.*

Cyst of auricle	3	0	4
Cyst of lobe	4	0	5
Epithelioma	3	0	1
Papilloma	0	0	1
Carcinoma	1	0	0
Chronic inflammation of alæ	0	0	1

d. *Trauma.*

Auricle	5	0	6

2. Meatus.

Cerumen	554	647	588
Atresia	0	1	0
Abscess	5	2	5
Eczema	27	16	30
Pruritus	1	0	1

	R.	B.	L.
Acute diffuse inflammation	31	1	24
Chronic diffuse inflammation	1	0	1
Acute diffuse inflammation with pre-auricular abscess	1	0	0
Acute circumscribed inflammation	112	2	95
Acute circumscribed inflammation with mastoiditis and pre-auricular abscess	1	0	0
Foreign body (animate)	16	1	14
Foreign body (inanimate)	12	1	9
Ulceration	1	0	0

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	3	0	2
Trauma indirect	2	0	1
Myringitis	4	0	1

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	196	124	95
With adenoids	95	78	90

Chronic Secretory Catarrhal Inflammation.

Mucous	197	569	257
With adenoids	171	300	112
With facial paralysis	1	0	0
With labyrinthine disease	3	3	2

b. *Adhesive Catarrhal Inflammation.*

Secretory	42	50	37
Secretory with labyrinthine disease	1	0	2

c. *Acute Inflammation.*

Simple	432	210	312
With adenoids	57	24	72
mastoiditis	47	0	32
facial paralysis	7	0	2
meningitis	1	0	0
post-aural abscess	1	0	2
mastoid abscess	3	0	0

d. *Acute Suppurative Inflammation.*

	R.	B.	L.
Simple	390	195	237
With cervical abscess	2	0	1
erysipelas	3	0	2
circumscribed abscess	4	0	3
mastoiditis	129	20	198
mastoiditis, frontal and ethmoidal sinusitis	1	0	2
mastoiditis and circumscribed abscess	0	0	2
mastoiditis and meningitis	1	0	1
mastoiditis and facial paralysis	0	0	1
mastoid fistula	0	0	1
post-aural abscess	11	0	14
post-aural and periauricular abscess	2	0	0
facial paralysis	0	0	1
adenoids	71	28	42

e. *Chronic Suppurative Inflammation.*

Simple	410	916	310
With atresia canal	1	0	0
mastoiditis	19	0	10
mastoiditis and periauricular abscess	1	0	0
torticollis	1	0	0
caries of the ossicles	9	0	14
facial paralysis	1	0	2
polypus in the tympanum	55	10	45
polypus in the tympanum and post-aural sinus	1	0	0
granulations in the tympanum	19	1	17
post-aural abscess	3	0	4
adenoids	16	2	21
adenoids, cervical adenitis, and cleft palate	0	0	1
Effect of suppurative inflammation	104	90	71
labyrinthine disease	1	0	2
facial paralysis	1	0	1
adenoids	16	5	8

IV. NEUROSIS OF THE MIDDLE EAR.

Otalgia from teeth	45	0	21
pharynx	1	0	1

V. DISEASES OF THE LABYRINTH.

	R.	B.	L.
Labyrinthitis	7	18	8
Anæmia	1	0	1
Concussion	1	0	1
Trauma	0	0	1
Hemorrhage	2	0	1

MISCELLANEOUS.

Adenoids and tonsils	0	202	0
Adenoids	0	142	0
Lingual tonsils	0	1	0
Tonsils	0	27	0
Hypertrophic rhinitis	0	67	0
Atrophic rhinitis	0	62	0
Purulent rhinitis	0	59	0
Abscess (nose)	0	2	0
Acne (nose)	0	1	0
Peritonsillar abscess	0	8	0
Polyp (nose)	0	29	0
Spur (nose)	0	102	0
Foreign body (nose)	0	3	0
Deaf-mutism	0	15	0
Deflected septum	0	157	0
Deflected septum with external deformity	0	1	0
Frontal sinus (acute)	45	4	43
(chronic)	9	3	10
Frontal sinus and antrum (acute)	1	0	0
Ethmoiditis	0	19	0
Ethmoiditis with nasal polyp	0	1	0
Sphenoiditis	0	1	0
Acute pharyngitis	0	29	0
Chronic pharyngitis	0	19	0
Fracture nasal bones	0	4	0
Epithelioma lower lip	0	1	0
Ethmoiditis and antrum	0	1	0
Facial paralysis	5	0	6
Facial erysipelas	0	2	0
Alveolar abscess	0	1	0
Dislocation of antrum cartilage	0	1	0
Fibroma larynx	0	1	0
Hæmatoma septum	0	1	0
Sarcoma tonsil and naso-pharynx	0	1	0

	R.	B.	L.
Sarcoma (nose)	0	2	0
Cyst turbinate	0	1	0
Hypertrophy turbinate	0	151	0
Adenitis	0	24	0
Adenitis with tonsillitis	0	0	2
Abscess septum	0	1	0
Deformity (nose)	0	3	0
Tumor (nose)	0	1	0
Trauma (nose)	0	1	0
Epistaxis	0	9	0
Eczema (nose)	0	10	0
Rhinitis (nose)	0	1	0
Specific nose and throat	0	5	0
Cleft palate	0	6	0
Bifid uvula	0	1	0
Ulceration septum	0	4	0
Ulceration tonsil	0	1	0
Specific ulceration septum	0	2	0
Specific pharynx	0	3	0
Tongue-tie	0	4	0
Syphilis	0	6	0
Foreign body œsophagus	0	1	0
Carcinoma œsophagus	0	1	0
Stricture of œsophagus	0	2	0
Specific laryngitis	0	2	0
Specific adhesions soft palate	0	2	0
Specific labyrinthitis	0	1	0
Fracture skull	0	1	0
Furunculosis (nose)	0	1	0
Retro-pharyngeal abscess	0	3	0
Anterior fracture cartilage of nose	0	2	0
Cicatritial adhesion of palate to pharynx	0	1	0
Cyst tonsil	0	0	1
Congenital fissure nose	0	1	0
Œdema uvula	0	3	0
Chronic tonsillitis	0	9	0
Ragged tear soft palate, extending to pillar of tonsil	1	0	0
Leucopathia	0	2	0
Eloped	0	16	0
No diagnosis	0	27	0
No ear disease	0	53	0

DONATIONS IN 1909–1910.

The Managers desire to acknowledge the receipt of the following donations in 1909–1910:—

Transactions of the American Ophthalmological Society, from Dr. William M. Sweet.

Graphophone discs, from Mrs. Dean Pierce.

Graphophone discs, from Mr. William C. Endicott.

Graphophone discs, from Mr. Henry Parkman.

Graphophone discs, from Mr. Conant.

Five dollars, from Mr. Charles X. Dalton.

Five dollars, from Mrs. D. D. Slade.

Two dollars, from Mr. H. A. McElvary.

Six down pillows, from Miss Ida Ridgeway.

Thirty-six knitted bandages, from Mrs. R. N. Staigg and Miss Staigg.

Flowers, from Mrs. J. W. Howe.

Flowers, from the Boston Flower Mission.

Flowers, from Rev. E. F. McLeod.

Flowers, anonymous.

Children's clothing, from the Jamaica Plain Needlework Guild.

Children's clothing, anonymous.

Old linen and towelling, from Mrs. D. D. Slade.

Spectacles and eyeglasses, anonymous.

Spectacles, from Mrs. D. D. Slade.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr. Henry Parkman, Mr. William D. Sohier, Mr. William H. Seabury, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. C. P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. C. P. Curtis, Mr. John Lehan, Mr. Harvey Clap, and Childs, Sleeper & Co.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

Graduates of any general hospital training school in good standing will be admitted to the Post-graduate Course at the Infirmary.

The course of instruction consists of four months' practical work in the aural and ophthalmic wards, the Out-patient Department, operating, sterilizing, and dressing rooms, with thirty-two lectures and classes by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

The lectures follow a graded course, beginning with the anatomy, physiology, and pathology of the eye and ear, concluding with the applied treatment of diseases of the same and the relation of general nursing to the eye and ear specialties.

The clinical and practical instruction in the hospital is given by the House Surgeons, Superintendent of Nurses, and the permanent Head Nurses, who are thoroughly prepared to give individual instruction.

Nurses completing the four months' course, and passing a satisfactory examination, receive the diploma of the school.

Nurses, while on duty, are expected to wear the uniform of the school from which they graduated.

Members of the school are expected to pass three weeks on night duty.

It is possible for a limited number of nurses, after completing their regular course, to arrange for a longer period of instruction in any one branch, should they desire.

The remuneration is $72 for the full course.

Application papers furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary of Boston the sum of dollars, to be applied to the uses of said infirmary.

EIGHTY-SIXTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1911

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the Superintendent.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

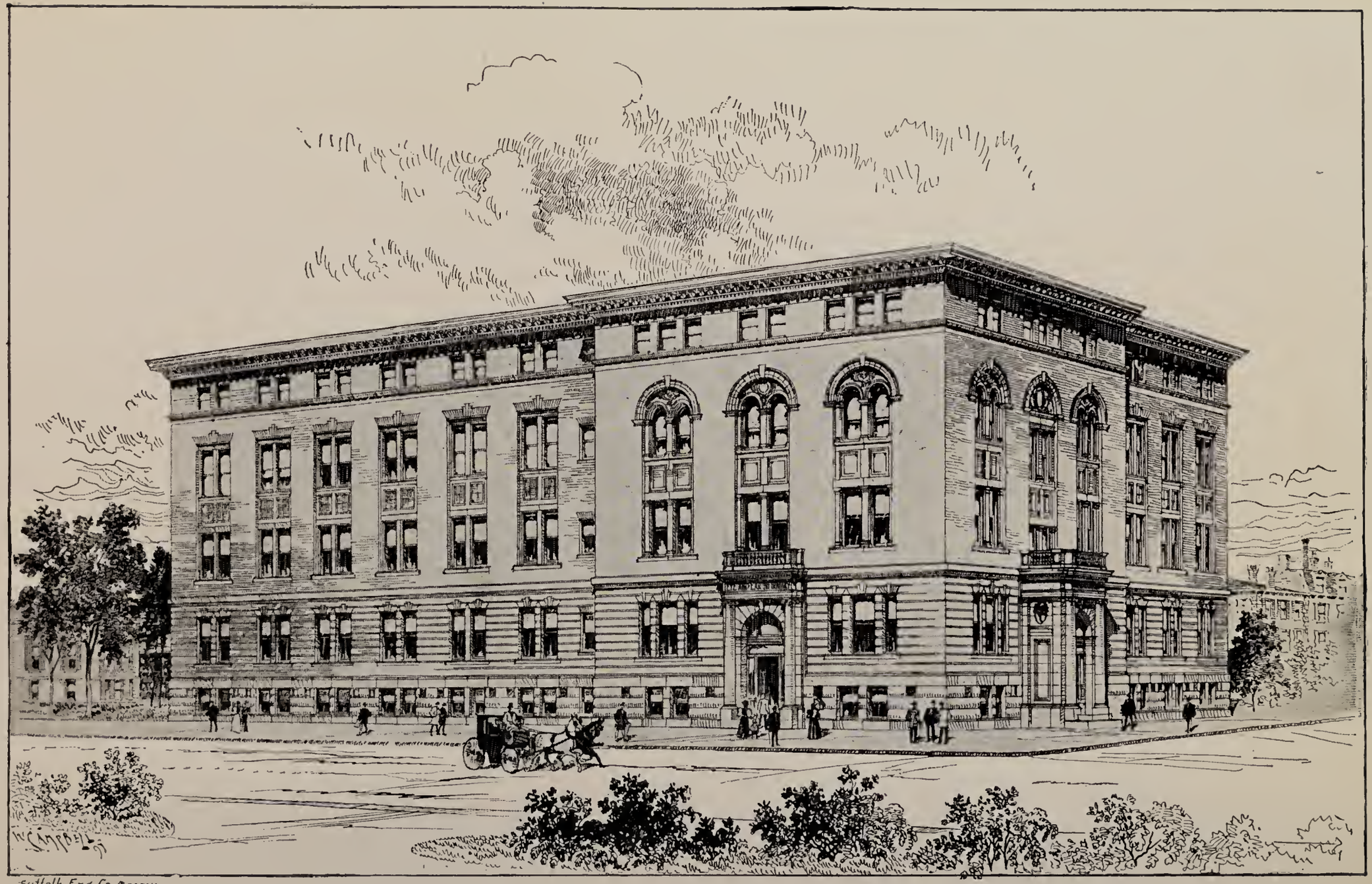
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy,** and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-SIXTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1911

BOSTON
PRESS OF GEO. H. ELLIS CO.
1912

OFFICERS

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

BOARD OF MANAGERS, 1911-1912.

AUGUSTUS HEMENWAY.
Feb. 5, 1878.

GEORGE P. GARDNER.
Feb. 1, 1887.

HENRY PARKMAN.
May 2, 1893.

*WILLIAM D. SOHIER.
Jan. 7, 1896.

WILLIAM H. SEABURY.
Oct. 27, 1898.

ROBERT HOMANS.
May 1, 1900.

WILLIAM S. SPAULDING.
Feb. 4, 1902.

DR. GEORGE B. SHATTUCK.
Oct. 30, 1902.

WILLIAM C. ENDICOTT.
Feb. 3, 1903.

RUSSELL G. FESSENDEN.
Feb. 3, 1903.

HERBERT M. SEARS.
Dec. 20, 1905.

CHARLES P. CURTIS.
Feb. 5, 1907.

ROBERT H. STEVENSON, JR.
Feb. 5, 1907.

*JOHN LAWRENCE.
Feb. 5, 1907.

President.

DR. GEORGE B. SHATTUCK.

Secretary.

ROBERT HOMANS, 1035 EXCHANGE BUILDING, 53 STATE STREET, BOSTON.

Treasurer.

HENRY PARKMAN, 53 STATE STREET, BOSTON.

Executive Committee.

GEORGE P. GARDNER. HERBERT M. SEARS. WILLIAM H. SEABURY.

Finance Committee.

WILLIAM S. SPAULDING. RUSSELL G. FESSENDEN. WILLIAM C. ENDICOTT.

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* Appointed by the Commonwealth.

Visiting Committees.

January,	Mr. SEABURY.	July,	Mr. PARKMAN.
	Mr. HEMENWAY.		Mr. STEVENSON.
February,	Mr. HEMENWAY.	August,	Mr. STEVENSON.
	Dr. SHATTUCK.		Mr. HOMANS.
March,	Dr. SHATTUCK.	September,	Mr. HOMANS.
	Mr. SPAULDING.		Mr. CURTIS.
April,	Mr. SPAULDING.	October,	Mr. CURTIS.
	Mr. FESSENDEN.		Mr. ENDICOTT.
May,	Mr. FESSENDEN.	November,	Mr. ENDICOTT.
	Mr. SEARS.		Mr. GARDNER.
June,	Mr. SEARS.	December,	Mr. GARDNER.
	Mr. PARKMAN.		Mr. SEABURY.

SURGICAL BOARD.

Consulting Ophthalmic Surgeons.

HASKET DERBY, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
H. BECKLES CHANDLER, M.D.

Consulting Aural Surgeons.

J. ORNE GREEN, M.D.
CLARENCE J. BLAKE, M.D.

Ophthalmic Surgeons.

MYLES STANDISH, M.D.
FREDERICK E. CHENEY, M.D.
EDWIN E. JACK, M.D.
ALEXANDER QUACKENBOSS, M.D.
HENRY H. HASKELL, M.D.
EDMUND W. CLAP, M.D.

Aural Surgeons.

FREDERICK L. JACK, M.D.
EDWARD M. PLUMMER, M.D.
EUGENE A. CROCKETT, M.D.
PHILIP HAMMOND, M.D.

Assistant Ophthalmic Surgeons.

FRED M. SPALDING, M.D.
A. GARDNER MORSE, M.D.
ELWOOD T. EASTON, M.D.
FREDERICK H. VERHOEFF, M.D.
ROBERT G. LORING, M.D.
PETER H. THOMPSON, M.D.

Assistant Aural Surgeons.

GEORGE A. WEBSTER, M.D.
D. HAROLD WALKER, M.D.
HARRIS P. MOSHER, M.D.
ALFRED M. AMADON, M.D.
WILLIAM F. KNOWLES, M.D.
GEORGE H. POWERS, Jr., M.D.
GEORGE L. TOBEY, Jr., M.D.
FRANCIS P. EMERSON, M.D.

Junior Assistant Ophthalmic Surgeons.

CHARLES D. JONES, M.D.
SAMUEL J. McDONALD, M.D.
GEORGE S. DERBY, M.D.
W. HOLBROOK LOWELL, M.D.
GEORGE H. RYDER, M.D.
EDWARD K. ELLIS, M.D.

Ophthalmic Clinical Assistants.

P. SOMERS SMYTH, M.D.
EDWARD D. HURLEY, M.D.
RALPH A. HATCH, M.D.
HENRY HAWKINS, M.D.
J. J. CORBETT, M.D.
FREDERICK J. McINTIRE, M.D.
HENRY G. CARROLL, M.D.
EDWARD M. MURPHY, M.D.

Aural Clinical Assistants.

BERTRAM H. CASWELL, M.D.
DANA W. DRURY, M.D.
CALVIN B. FAUNCE, Jr., M.D.
PERCY C. PROCTOR, M.D.
TIMOTHY J. SHANAHAN, M.D.
FREDERICK L. BOGAN, M.D.
JOHN H. BLODGETT, M.D.
WM. W. HENNESSEY, M.D.
JOHN L. LOUGEE, M.D.

Pathologist.

FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.

GEORGE A. WATERMAN, M.D.

Consulting Surgeons.

SAMUEL J. MIXTER, M.D. LINCOLN DAVIS, M.D.

Consulting Physicians.

THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
ROGER I. LEE, M.D.

Consulting Anæsthetist.

ARTHUR M. DODGE, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.

ROLAND C. MACKENZIE, M.D. HAROLD B. CHANDLER, M.D.

Ophthalmic Externe.

ARTHUR F. JACKLE, M.D.

Aural House Surgeons.

OLIVER A. LOTHROP, M.D. A. LOUIS MacMILLAN, Jr., M.D.

Aural Externe.

HARRY M. NICHOLSON, M.D.

EXECUTIVE OFFICERS.

Superintendent.

FARRAR COBB, M.D.

Matron and Superintendent of Nurses.

MARY COONAHAN.

Apothecary.

HOWARD W. MORSE.

Assistant to the Superintendent.

JOHN G. SCHROEDER.

Assistant Matron.

HARRIET L. HARRIS.

Supervisor.

MITCHELL A. DEARBORN.

Opticians.

ANDREW J. LLOYD COMPANY.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear. It is the second ~~largest~~ oldest hospital in New England, and it is the fourth oldest special hospital of its kind. At present, with its capacity of 210 beds for ward patients, its out-patient clinic, its special building for the treatment of contagious ophthalmia, its pathological building, and its Nurses' Home, it is the largest hospital for diseases of the eye and ear in the world. Ever since it was started, it has given the best treatment to poor people, many of whom without its aid would have been unable to gain a livelihood.

The Board of Managers making this report feel that the institution at the present time, with its additional capacity for carrying on a straight charitable work, should be more than ever before an object of interest to the people of the State and City. Its work has increased year after year, as the population of the City and State and other New England States has increased.

The following tabulated statement in regard to numbers of patients treated will be of interest, and these figures should be multiplied by three or four to show the total attendance of patients old and new, out-patients and house patients, who pass through its different departments in a year.

The number of new patients treated in the wards and Out-patient Department in

1849 was	2,002	1897 was . . .	21,594
1877 "	9,087	1900 " . . .	28,427
1890 "	15,289	1910 " . . .	32,462

The number of patients treated in wards in

1900 was	2,180	1910 was . . .	3,449

In 1899 the new hospital building on the corner of Charles and Fruit Streets, with a capacity of 160 beds, was completed. At that time it seemed that sufficient accommodation for the proper treatment of patients had been provided for many years, but not more than five years had passed before the Board of Managers realized that the Infirmary could not take care of the large number of deserving cases needing treatment in the wards unless some radical changes were made. It was necessary to provide increased facilities, and, to do this, a Nurses' Home four stories in height, on land owned by the Infirmary on the corner of Charles and Cambridge Streets, overlooking the Charles River Basin and the new Boulevard, was constructed. This building is large enough to properly house 100 nurses and domestic servants.

When the Nurses' Home was completed, it was possible so to change the top floor of the hospital building, formerly occupied by nurses and servants, as to provide 50 beds for patients in wards and rooms as well as additional operating and service rooms. To accomplish this, it was necessary to provide new quarters for the pathological work of the Infirmary, and, therefore, a special pathological building was constructed, immediately adjoining the main hospital building. The total cost of the Nurses' Home, alterations in the main building to secure 50 additional beds, and the construction of the new Pathological Laboratory was $131,041.13.

Because of the increased number of beds, more charitable work has been done by the Infirmary than in any year of its history. The 50 beds added upon the remodelled top floor have been in almost constant demand during the year. The total number of patients admitted to the wards was 3,449, of which number 1,489 were children under fourteen years of age. The daily average number of patients in the wards of the hospital was 166, an increase of 16 a day over last year. The total number of days' board furnished was 60,627, or 6,224 more than the year before. Of this 46,246 days were for free patients. The largest number of ward patients in one day was 199; the smallest, 117. The number of new patients applying for treatment in the Out-patient Department was 29,875, an increase of 969 over the previous year. The total number of patients, new and old, in the Out-patient Department was 61,641. Of the 29,875 new out-patients, 15,560 were residents of the State of Massachusetts outside of Boston and 234 came from other States. Of the 3,449 patients treated as inmates in the wards, 1,961 were citizens of Massachusetts cities and towns outside of Boston. 1,340 were residents of Boston.

It may be seen, from the list of occupations, that the patients applying for treatment, as given in the detailed report of the Superintendent, were artisans, mechanics, clerks, and others of the wage-earning class who were unable to pay a fee for professional services. During the year 252 were refused treatment, being considered cases unfit for a charitable institution.

GARDNER BUILDING.

(A DETACHED BUILDING FOR THE TREATMENT OF CONTAGIOUS OPHTHALMIA.)

The Board of Managers feel that they cannot too often or too emphatically call attention in each annual report to the greatest work of the Infirmary; that is, the care of cases of contagious ophthalmia in a special building given by Mr. George A. Gardner for the treatment of contagious diseases of the eye, with special reference to cases of ophthalmia neonatorum. This work is of the utmost value sociologically. It annually saves the Commonwealth a large amount of money in the prevention of blindness. This Gardner Building is the largest and most important special building for this work of any known institution. It is a detached structure, three stories high, with a capacity of 25 beds and isolating facilities. It costs annually to maintain this building over ten thousand dollars. In the past year 338 cases of contagious eye disease were treated, of whom 202 were infants under one and a half years of age. A detailed report of this special work will be found in the report of the Superintendent. It is sufficient to say of the contagious ophthalmic cases that only 3 eyes were lost after admission. One of the most important parts of the work of the Social Service Department, to which department attention will be called later, has been in the following up of the cases of contagious ophthalmia, especially of infants after they were discharged from the institution, and in investigating the circumstances of those unfortunate cases of children who came to the Gardner Building too late for us to save the eyesight, thus co-operating in enforcing the law in regard to reporting cases of contagious ophthalmia.

During the last four years the Social Service Department has been in close touch, during the stay in the hospital and after leaving the hospital, with 388 cases of contagious ophthalmia in infants. It is impossible to exaggerate the

importance of the work done in the Gardner Building. It is the most difficult, dangerous, and expensive part of the hospital work. The Board of Managers earnestly desire to raise a special endowment fund for this branch of the work of the hospital.

SOCIAL SERVICE DEPARTMENT.

The Social Service Department on September 30 ended the fourth year of its work. During the first three years of its existence, with the financial assistance of a few devoted friends especially interested in sociological work and in the prevention of blindness, the organization and work of the Social Service Department was made possible. The Board of Managers always recognized the great value of this department, and a year ago decided to take increasing financial responsibility, feeling that the department should form a definite part of the hospital management. At the time of writing this report the Board of Managers have voted to assume the entire financial responsibility of the Social Service Department and to conduct the same as a definite part of the hospital system, with the assistance of an advisory committee composed of two members of the Board, two surgeons, the Superintendent, and four ladies specially interested in the work from its start.

A separate report of the last year's report of the Social Service work will be mailed with this published report of the Managers, and we feel that no one can read this without being impressed by the great necessity for and the great possibilities in such work. In taking over the entire cost of the Social Service Department, the Board of Managers have incurred an additional yearly expense of $5,000. This extra money must be raised by gifts and subscriptions, and the Board of Managers most earnestly appeal for contributions for this purpose, and would especially welcome any large gifts or bequests in the form of a special endowment for the continued expenses of this department.

ROOF GARDEN.

When the recent structural changes and new buildings were undertaken, the Managers carefully considered the construction of a garden on the roof of the main building, because they recognized that fresh-air treatment out-of-doors has become a most important part of the treatment of hospital patients, more important in most cases than any medicine. The cost of adapting the roof of the building for this purpose and carrying the passenger elevator to the roof would have been at least $10,000. At that time it was not possible to see a way clear to spending this large amount. The need of such a roof garden is great, and it is the hope of the Board that some person or persons may see fit to give sufficient money to construct such a place during the coming year.

MAINTENANCE.

Since the new hospital building was opened in 1899, the cost of maintenance of the Infirmary has always exceeded the receipts. It has not been possible to take care of the large numbers of patients applying for treatment without an annual deficit until the present year. Last year a deficit of $13,638 had to be met. Because of this large deficit and because of the expenditures during the year of $131,041 in new buildings and improvements to increase the capacity of the Infirmary 25 per cent., the State appropriation was generously increased by the Legislature. With this increased appropriation and most careful management, thereby reducing the per capita expense, the Managers have been able to show this year a very small balance of receipts above expenditures.

The total cost of maintaining the Infirmary proper, the Out-patient Department, the Gardner Building, the pathological building, and the Nurses' Home was $103,948.62.

The receipts from all sources were $103,954.76.

The per capita cost per house patient per week was $11.83, or $1.05 less than the year before.

The cost of subsistence per inmate per day was 19 cents.

In the coming year the Managers must raise much more money by special contributions than the year before, because of the increased cost of maintenance necessitated by taking over the Social Service Department and because of the necessity of spending more money than in the year past in the care of the buildings. The ever-increasing work in all departments of the Infirmary also makes increasing expense from year to year.

Last year a special appeal for contributions was made, circular letters being sent out descriptive of the Infirmary and its needs. $2,263 was received in this way. The names of the people generously giving this sum are incorporated at the end of this report. The Managers will be compelled to go to the public again in this way the coming year, and are forced here in this report to make a special plea for contributions, as it will cost more money to do the work of the Infirmary. There is need of a special fund for the Social Service Department, a special fund for the maintaining of the contagious building, and there is great need for a gift of at least $10,000 to provide facilities for fresh-air treatment.

During the year Dr. H. B. Chandler, after serving the Infirmary as surgeon for over twenty-one years, resigned. The Board of Managers accepted this resignation with regret, and, after thanking Dr. Chandler for his long and faithful service, appointed him to the Board of Consulting Surgeons.

The Managers desire to acknowledge with thanks the following legacies and gifts which were received during the year. Of these a portion has been devoted to the Social Service work.

Estate of Mary E. Rust, $2,160; Mr. John Lawrence and Mr. Francis Peabody, trustees, $1,000; Mrs. J. A. Beebe, $50; Miss Mary F. Bartlett, $25; Mr. D. F. Barker, $10; Mr. Arthur T. Lyman, $100; Mr. R. H. Boutwell, $5; Mr. William C. Endicott, $25; Mr. C. W. Amory, $100; Mr.

Samuel Appleton, $25; Mr. Alfred S. Dabney, $5; Mrs. Charles P. Curtis, $100; Mrs. S. P. Mandell, $25; Mr. Thomas P. Beal, $25; Mrs. William B. Rogers, $15; Mr. Samuel S. Shaw, $10; Mrs. F. R. Bangs, $10; Anonymous, $10; Mr. Arthur A. Carey, $5; Brown, Durrell Company, $25; Miss Cruft, $100; Mrs. James M. Crafts, $50; Mrs. H. L. Higginson, $25; Mrs. W. W. Blackmar, $5; Mr. William P. Blake, $10; Mr. Thornton K. Lothrop, $100; Mrs. W. Scott Fitz, $25; Mr. Timothy Smith, $10; Mrs. Josiah Bradlee, A.B., $20; Anonymous, $25; Mr. George W. Brown, $10; Mr. S. Parkman Shaw, Jr., $10; Mr. George Wigglesworth, $25; Cash, $2; Carter's Ink Company, $10; Mrs. Lester Leland, $100; Mr. R. H. Gardiner, $10; Mrs. Sarah T. Bremer, $25; Mr. Allison M. Stickney, $5; Mr. Amory A. Lawrence, $100; Mr. Louis Bacon, $10; Mr. Charles W. Hubbard, $25; Mr. E. D. Barbour, $5; Mr. Philip S. Sears, $25; Mrs. H. S. Grew, $10; Miss Georgina Lowell, $5; Mrs. Thomas Motley, $10; Mr. and Mrs. Allston Burr, $10; Mr. Elmer P. Howe, $25; Mr. David P. Kimball, $100; Mr. Harold J. Coolidge, $10; Mrs. William S. Bullard, $10; Anonymous, $25; Mr. Dudley L. Pickman, $50; Mr. J. Randolph Coolidge, $50; Mr. William H. Gove, $10; Mr. A. Lawrence Rotch, $100; Mr. John Parkinson, $20; Mr. Peter C. Brooks, $100; Mr. John O. Runkle, $10; Miss May H. Berry, $5; "A friend," $10; Mr. Henry S. Howe, $25; Mr. Francis C. Sears, $10; Mr. A. C. Ratshesky, $10; Mr. Herbert M. Sears, $100; Mr. King Upton, $1; Dr. George B. Shattuck, $25; Mr. M. B. Brandegee, $10; Mr. E. Pierson Beebe, $100; Mr. Samuel Hammond, $10; Mr. C. B. R. Hazeltine, $10; Mr. F. W. Hunnewell, $100.

JOHN LAWRENCE,
AUGUSTUS HEMENWAY,
GEORGE P. GARDNER,

Committee of the Board of Managers.

NURSES' HOME.

Opened August 5, 1909.

REPORT OF THE TREASURER.

INCOME, RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1911.

INCOME.

RECEIPTS:

Income from investments		$26,036.08
Appropriation from the State		45,000.00
Income from trustees, will of E. V. Ashton		1,600.00
Income from estate of Robert B. Brigham		1,000.00
Interest on bank deposit		242.41
Gifts for running expenses		1,014.00
Rebate on bank tax		101.71
From Superintendent, as per his report:		
Board of patients	$9,755.55	
Out-patient visits	5,747.20	
Medicines	8,604.08	
Opticians' accounts	4,692.25	
Sundries	161.48	28,960.56
		$103,954.76

EXPENDITURES.

Running expenses of hospital per account of Superintendent		$102,818.60
Additional expenses, per account of Treasurer:		
Annual Report, printing, etc.	$582.25	
Auditing and book-keeping	250.00	
Interest on borrowed money	206.89	
Legal expenses	50.00	
Sundries	40.88	1,130.02
		$103,948.62
		$6.14

SOCIAL SERVICE WORK.

RECEIPTS:		
Income from F. R. Sears Fund	$960.00	
Transfer from gift account	1,249.00	$2,209.00
EXPENDITURES:		
Wages	$2,007.47	
Stationery, printing, etc.	75.29	
Street-car and railroad fares	83.71	
Sundries	42.43	2,208.90
		$0.10

Book Value.	*No. of Shares.*	RAILROAD STOCKS.
$10,625.87	135	Atchison, Topeka & Santa Fé Ry. Preferred.
11,907.50	100	Chicago Junction Ry. & Union Stock Yards Preferred.
1,346.25	25	Concord & Montreal R.R.
7,954.75	62	Chicago & No. Western Ry.
14,205.35	145	Fitchburg R.R. Preferred.
1,830.00	20	Manchester & Lawrence R.R.
14,187.50	100	Manhattan Railway.
5,896.88	50	New York Central & Hudson River R.R.
8,156.25	100	Union Pacific Preferred.
410.00	5	Vermont & Mass. R.R.
1,215.00	15	Northern R.R.
$77,435.35		

BANK SHARES.

$4,087.50	30	Merchants National Bank of Boston.

REAL ESTATE SHARES.

$10,113.25	10	Boston Real Estate Trust.
1,000.00	1	Boston Ground Rent Trust.
500.00	5	Bannigan Building Trust.
200.00	2	Devonshire Building Trust.
500.00	5	Warren Chambers Trust.
$12,313.25		

Book Value.	*No. of Shares.*	Miscellaneous Shares.
$25,591.62	200	American Tel. & Tel. Co.
11,680.75	100	American Sugar Refining Co. Preferred.
25,000.00	250	Ballard Vale Mills Preferred.
5,000.00	50	Mass. Electric Co. Preferred.
7,518.70	100	West End Street Ry. Common.
6,700.00	6,700	Mass. Hospital Life Insurance, Annuity in Trust.
$81,491.07		

	Railroad Bonds.	*Par Value.*
$8,785.78	Atchison, Topeka & Santa Fé General Mtge. 4%	$7,500.00
	Atchison, Topeka & Santa Fé Adjustment 4%	4,000.00
4,545.40	Atchison, Topeka & Santa Fé Convertible 4%	5,000.00
9,925.00	Boston & Albany R.R. 4%	10,000.00
8,950.00	Burlington & Missouri River (Nebraska) 6%	7,000.00
10,637.50	Chicago, Milwaukee & St. Paul R.R. 6%	10,000.00
5,244.00	Cincinnati, Ind., St. Louis & Chicago 6%	5,000.00
10,287.50	Chicago, Burlington & Quincy R.R. 4%	10,000.00
24,900.00	Chicago Junc. Ry. & Union Stock Yards 4%	25,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,400.00	Chesapeake & Ohio Ry. Co. 4½%	10,000.00
10,675.00	Fitchburg R.R. 4%	10,000.00
10,000.00	Iowa Falls & Sioux City R.R. 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield R.R. 5%	5,000.00
9,095.00	Kansas City, Memphis & Birmingham R.R. 5%	9,000.00
10,008.50	Kansas City & Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island Ry. 4%	25,000.00
13,776.70	New York Central & Hudson R.R. 3½%	15,000.00
4,736.25	Northern Pacific-Great Northern 4%	10,000.00
9,450.00	Oregon Short Line 4%	10,000.00
13,482.65	Pennsylvania R.R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain R.R. 5%	10,000.00
$223,914.28		$232,500.00

Book Value.	Miscellaneous Bonds.	*Par Value.*
$19,271.53	American Tel. & Tel. Coll. Trust 4%	$21,000.00
4,712.50	American Agricultural Chemical Co. 5%	5,000.00
9,550.00	California Gas & Electric Corp. 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
4,582.64	Edison Electric Co. Los Angeles 5%	5,000.00
9,812.50	Illinois Steel Co. 5%	10,000.00
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
4,781.25	Mass. Electric Co. 4½%	5,000.00
5,100.00	Mass., State of, 3%	5,000.00
9,850.00	Ga. Ry. & Elec. Co.	10,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
9,625.00	United States Steel Corp. 5%	10,000.00
9,800.00	United Electric Securities 5%	10,000.00
10,150.00	Tacoma Railway & Power Co. 5%	10,000.00
$145,354.03		$148,000.00

CONDENSED TRIAL BALANCE, SEPT. 30, 1911.

Assets.

Stocks and Bonds: Investments (book value)	$545,073.14
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Real Estate, 15 Warren Avenue, Somerville	2,042.92
Cash on hand and in Superintendent's hands	19,832.21
	$1,130,289.89

Liabilities.

Capital, including various funds, legacies, etc.	$1,130,289.89

We have examined the accounts of the Superintendent monthly and the account of the Treasurer for the year ending Sept. 30, 1911, and found the same correct.

Patterson, Teele & Dennis,
Certified Public Accountants.

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,449.

Of the 3,449 house patients, 1,983 were males and 1,466 were females.

Number of patients treated in ophthalmic wards . .	1,700
Number of patients treated in aural wards	1,749

Of this number 308 were treated in the Gardner Building for contagious diseases. 121 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average number of patients treated in this building was 19.

Of the total number of patients treated in the wards 1,489 were children under fourteen years of age.

The daily average number of patients treated in the wards was 166.

The largest number of house patients treated on any one day was 199; the smallest number, 117.

Number of free patients admitted	2,036
Paying patients at $1 per week	55
Paying patients at $2 per week	89
Paying patients at $3 per week	199
Paying patients at $5 per week	135
Paying patients at $7 per week	134
Paying patients at $10 per week	636
Patients remaining in wards Sept. 30, 1910	165

The average stay per patient in the hospital under treatment was 17 days.

60,627 days' board was furnished to patients. 14,403 days' was paid, and 46,224 free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,340	Connecticut	2
Mass. (excepting Boston)	1,961	Other States	5
Maine	23	Canada	4
New Hampshire	71	Other countries	14
Vermont	17	Total	3,449
Rhode Island	12		

OCCUPATIONS OF HOUSE PATIENTS.

Males.—Ophthalmic.

Agents	3	Musician	1
Baker	1	Painters and glaziers	16
Barbers	7	Pedlers	11
Blacksmiths	16	Porters	6
Book-keeper	1	Policeman	1
Butchers	4	Piano-tuners	2
Carpenters and Wood-workers,	31	Physicians	2
Chauffeurs	3	Plumbers and steam-fitters	5
Clerks	29	Printers and compositors	5
Clergyman	1	Photographer	1
Coachmen and hostlers	12	Railroad employees	14
Cooks	2	Roofer	1
Druggists and chemists	3	Salesmen	11
Electricians	5	Seamen and fishermen	10
Engineers	8	Shipper	1
Farmers	30	Shoemakers	24
Firemen	6	Stenographer	1
Gardeners	3	Students	3
Hospital attendants	2	Stone-cutters	35
Janitors	8	Store-keepers	11
Laborers	171	Tailors	9
Leather workers	3	Teamsters	30
Letter-carrier	1	Upholsterer	1
Lodging-house keepers	2	Waiters	5
Machinists	32	Watchmen	8
Masons	12	Unclassified	6
Metal workers and moulders	30	Minors	298
Mill and factory operatives	120		1,064

MALES.—AURAL.

Agents	3	Machinists	8
Book-binders	2	Mason	1
Barbers	2	Metal workers and moulders	9
Blacksmiths	3	Musician	1
Book-keeper	1	Policeman	1
Butcher	1	Painter	1
Bell-boys	2	Porters	3
Chauffeur	1	Pedler	1
Clerks	19	Physicians and dentists	3
Clergyman	1	Plumber	1
Carpenters and wood-workers,	14	Railroad employees	7
Cooks	2	Roofers	2
Coachman	1	Store-keepers	2
Draughtsman	1	Salesmen	2
Engineers	2	Seamen and fishermen	9
Engraver	1	Shippers	2
Electricians	3	Shoemakers	13
Farmers	6	Singers	2
Gardeners	2	Stone-cutters	2
Hospital attendant	1	Students	6
Janitors	4	Teamsters	10
Laborers	76	Tailors	6
Leather worker	1	Waiters	5
Letter-carrier	1	Unclassified	2
Light-house keeper	1	Minors	632
Mill and factory operatives	36		918

FEMALES.—OPHTHALMIC.

Book-keeper	1	Saleswomen	2
Clerks	7	Settlement worker	1
Cooks	5	Stenographers	2
Domestics	55	Storekeepers	2
Dressmakers and seamstresses	5	Teachers	2
Housewives	210	Minors	298
Hairdresser	1		636
Mill and factory operatives	33		
Nurses	12		

FEMALES.—AURAL.

Book-binder	1	Saleswomen	2
Book-keepers	3	Singer	1
Clerks	9	Stenographers	6
Cooks	3	Student	1
Compositor	1	Teacher	1
Domestics	60	Telephone operators	3
Dressmakers and seamstresses	13	Waitresses	5
Housewives	86	Unclassified	2
Mill and factory operatives	33	Minors	586
Nurses	14		836

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

1,589 were well.
1,423 were relieved.
128 were not relieved.
73 left against advice.
10 were not treated.
50 died.
17 were transferred to other hospitals for other diseases.
159 remaining in hospital Sept. 30, 1911.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 989 operations performed in the house, and 2,214 in the Out-patient Department.

In the Aural Departments there were 1,471 operations performed in the house, and 1,882 in the Out-patient Department.

OUT-PATIENT DEPARTMENT.

New patients treated:—

Ophthalmic:	Males	11,174	
	Females	9,234	
			20,408
Aural:	Males	5,071	
	Females	4,396	
			9,467
	Total		29,875

Old patients treated:—

Ophthalmic	17,273	
Aural	14,493	
		31,766
Total visits in Out-patient Department		61,641

RESIDENCES OF OUT-PATIENTS.

Boston	14,081	Connecticut	3
Mass. (excepting Boston)	15,537	Other States	5
Maine	100	Canada	4
New Hampshire	101	Other countries	14
Vermont	20		29,875
Rhode Island	10		

OCCUPATIONS OF OUT-PATIENTS.

Actors	8	Mill and factory employees	3,509
Agents	390	Moulders	41
Artists	141	Musicians	42
Barbers	330	Nurses	50
Bakers	236	Painters	479
Blacksmiths	207	Pedlers	632
Bookbinders	286	Pensioners	26
Book-keepers	200	Photographers	30
Butchers	163	Physicians	24
Carpenters	446	Plumbers	72
Clergymen	29	Policemen and letter-carriers	48
Clerks	2,010	Porters	120
Coachmen and hostlers	155	Railroad employees	254
Compositors and printers	274	Soldiers	33
Domestics	528	Seamstresses	619
Draughtsmen	84	Shoemakers	523
Electricians	170	Stenographers	99
Engineers	192	Stone-cutters	100
Engravers	74	Storekeepers	86
Farmers	365	Students	62
Firemen	146	Tailors	291
Fishermen and seamen	158	Teachers	42
Hotel and lodging-house keepers	216	Teamsters	509
Housewives	5,170	Telephone and telegraph operators	392
Laborers	3,073	Waiters	142
Lawyers	3	Wood-workers	9
Masons	78	Unclassified	948
Messengers	143	Minors	4,440
Machinists	793		29,875
Milliners	185		

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 378 patients were treated in the special wards of the Gardner Building. Of these there were 202 cases of ophthalmia neonatorum (gonorrhœal and non-gonorrhœal). There were 52 cases of gonorrhœal ophthalmia, 32 occurring in adults and 20 in children. There were 43 cases of purulent ophthalmia, non-gonorrhœal: 15 of these were in adults and 28 in children. At the time of entrance the cornea was involved in 38 of the ophthalmia neonatorum cases and in 13 of the gonorrhœal ophthalmia cases, of which 10 were in adults and 3 in children. The cornea became involved in but 3 cases after admission. At the time of entrance the cornea was involved in 7 cases of purulent ophthalmia, of which 4 were in adults and 3 in children.

14 cases of specific iritis with active secondary lesions of the disease were treated. There was also 1 case of specific iritis with gumma, 1 case of gumma of the ciliary region, 5 cases of specific interstitial keratitis, 1 case of specific neuro-retinitis, 17 cases of trachoma, 1 case of metastatic gonorrhœal ophthalmitis, and 1 case of diphtheritic conjunctivitis.

40 patients were transferred to an isolated floor of the Gardner Building for general infectious diseases.

EXPENDITURES FOR 1911.

The total expenditure by the Superintendent has been $102,818.60, which is itemized as follows:—

Provisions		$19,949.73
Meat, fish, and poultry	$7,836.57	
Fruit and vegetables	2,158.02	
Bread and flour	1,262.35	
Milk	3,391.45	
Groceries	3,401.68	
Butter and eggs	1,899.66	
Wines, liquors, and alcohol		431.99
Water rates		1,679.70
Hospital	1,508.40	
Nurses' Home	171.30	
Soap and soap powder		784.32
Gas and electric lighting		1,304.40
Gas (hospital)	403.92	
Gas and electric lighting (Nurses' Home)	900.48	
Ice		699.83
Heat, electric lighting and power		6,053.79
Fuel		1,287.64
Kitchen	335.63	
Nurses' Home	952.01	
Medicines and drugs		4,973.91
Furniture and bedding		462.55
Stationery, printing, and new card-index system Out-patient Department		1,483.79
Wages		47,733.76
Officers	10,999.92	
Clerks (Superintendent's Office, Social Service Department, Out-patient Department, and telephone)	2,741.73	
Engineers and watchman	1,800.00	
Carpenter and painters	2,210.46	
Laboratory assistant	540.00	
Ward masters, orderlies, and porters	7,999.66	
Apothecary assistants	1,001.00	
Elevator man	300.00	

Janitor (Nurses' Home)	420.00	
Head nurses, operating-room nurses, and etherizer,	4,811.23	
Post-graduate nurses	956.00	
Special nurses	1,299.35	
Attendant nurses	4,764.50	
Housekeepers	720.00	
Kitchen and dining-room employees	2,568.26	
Laundresses	2,155.26	
General women and ward maids	2,183.47	
Seamstresses	262.92	
Optical and surgical instruments and instrument repairs		919.25
Spectacles and eyeglasses furnished free to wards of the State of Massachusetts and very poor patients		516.95
Repairs and improvements		4,108.48
Plumbing	328.59	
Laundry plant	275.84	
Steam plant	492.00	
Electric plant	538.35	
Carpentering	619.74	
Painting and glazing	367.25	
Kitchen cooking apparatus	275.29	
Elevators and dumb-waiters	142.45	
Furniture and bedding	76.24	
Locks, keys, hardware, and gas fixtures	258.67	
Care of ward floors	145.56	
Roofing	45.16	
New hearing-test room, Out-Patient Department,	360.00	
Grounds (hospital and Nurses' Home)	183.34	
House, ward, and surgical supplies		8,144.37
Kitchen and dining-rooms	228.27	
Linen-room	1,739.61	
Surgical supplies	3,911.84	
Ward supplies	761.41	
Bacteriological laboratory supplies	217.14	
Laundry and general supplies	715.55	
Uniforms:		
Doctors	104.75	
Orderlies	203.30	
Patients	262.50	
Contingent and sundries		2,284.14
Sundries and training school	181.45	
Surgeons' library	55.43	
Nurses' library	24.85	
Postage and express	166.89	
Telephone	1,078.48	

Bacteriological laboratory	17.40
Advertising	109.00
X-ray plates (Mass. General Hospital)	337.82
Wasserman tests	195.00
Office	117.82

The value of stock on hand Oct. 1, 1911, was:—

House and surgical supplies	$5,482.48	
Drugs and medicines	2,596.83	
Provisions	442.00	
		$8,521.31

The value of stock on hand Oct. 1, 1910, was	$9,185.16
The value of stock on hand Oct. 1, 1911, was	8,521.31
	$663.85

Adding the difference in value of stock on hand Oct. 1, 1910, $663.85, and Oct. 1, 1911, gives the cost of maintenance per house patient per week as $11.83. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $19,949.73.

The daily average number of patients was 166; of officers and employees, including house and nursing staff, 119; or a total daily average of 285 persons. The number of weeks' board of all persons was 14,860, and the weekly cost per person for uncooked food supplies was $1.33, or 19 cents per day.

LIVING ROOM. NURSES' HOME.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 130 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, and Throat, Clinical Diseases and Surgery of the same, Refraction, Aural and Ophthalmic Nursing and special nursing of Brain Abscess, the Ear in Art and History, the Hospital Formulary, Contagious Diseases, the Care of Infants, and the Nurse as a Social Worker. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, and the preparation of infants' food.

The number of post-graduate and pupil nurses taking the course was 17. 14 graduates received the diploma of the school. 30 applications for the course were received during the year.

In addition to the regular special training, instruction in hospital management has been inaugurated. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head-nurses. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1902, to Oct. 1, 1911, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-patients Aural.*	*Total.*
1902	1,483	750	22,839	7,180	32,252
1903	1,548	975	23,614	7,876	34,013
1904	1,546	1,269	23,953	8,782	35,540
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,343	8,213	34,482
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
1910	1,646	1,910	19,542	9,364	32,462
1911	1,700	1,749	20,458	9,467	33,374
Totals . .	15,733	14,151	221,747	87,297	338,928

A total of 338,928 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 1,116,784.

FARRAR COBB, M.D.,
Superintendent.

REPORT OF THE FULL BOARD OF SURGEONS.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—In submitting the annual report, the Board of Surgeons have to note the usual ratio of increase in both ward and out-patient departments in both ophthalmic and aural, which seems to be the usual inevitable and healthy growth which the hospital has experienced in years past as in the present.

A serious problem presents itself to the Ophthalmic Staff in the care of the vision-room, which has become within the last two years so great a burden that it seems desirable that the subject should be carefully investigated by the Board of Management and the Ophthalmic Staff acting together.

The number of ophthalmic out-patients coming to the Out-patient Department for the first time during the year was 20,408, the number of old patients during the same period was 17,273, making a total of 37,681 visits of ophthalmic out-patients.

Of this total 14,493 were sent to the vision-room for examination. Such a mass of patients involves an amount of work that cannot possibly be satisfactorily accomplished by our present facilities and methods.

One day, September 2, the number of such patients who presented themselves for examination was 94.

Heretofore there has been an attempt made to examine such patients on the day of their application.

There is no real reason for such prompt action. These cases are not emergency cases, and should be refused when the time at the disposal of the clinic has been fully occupied, just as patients are refused admission to the house when the beds are all filled.

The number of cases sent to the vision-room in 1909 was 7,500, in 1910 was 10,000, in 1911 was 14,493.

The present system of obtaining X-ray plates from the Massachusetts General Hospital has not been satisfactory to the staff. Patients have to be sent from the wards of the Eye and Ear Infirmary to the Massachusetts General Hospital, which is obviously not easy with sick patients, and the plates so obtained have often been unsatisfactory, necessitating retaking and a subsequent delay, extending in some cases over a period of three or four days or more.

It is the opinion of the Board of Surgeons that this difficulty can be best obviated by the establishment of our own X-ray room, and they hope that the Board of Managers may be able in the near future to establish such a plant, and thereby complete the scientific equipment of the hospital.

For the Full Board of Surgeons,

MYLES STANDISH, M.D.
E. A. CROCKETT, M.D.

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—At the end of its second year the new laboratory is continuing to demonstrate in every way its superiority over the old.

The importance of making systematic examination of all the pathological material was especially emphasized during the past year by the findings in a single case. In the course of the routine examinations an eye was encountered showing a condition which, although frequently met with clinically, had not hitherto been examined microscopically. As a result, the condition was shown to be due, not, as has been supposed, to the direct action of bacteria, but to a lesion involving the nerve supply of the cornea.

The data obtained through careful routine examinations are also bringing to light certain facts in regard to the obscure disease glaucoma, which are believed to be of considerable importance.

The pathological work from the Aural Department has consisted chiefly in bacteriological examinations, in examinations of specimens for diagnosis, and of autopsies. The material for research work from this department is comparatively limited, owing to the fact that it can be obtained, as a rule, only at autopsy, and then not in a condition most favorable for study. Undoubtedly, however, much could be accomplished in this direction if, through a sufficient

endowment, enthusiastic investigators could be attracted to this field.

Publications:—

"Ein Fall von Syphilom des Optikus und der Papille mit Spirochätenbefund." F. H. Verhoeff. *Klinische Monatsblätter für Augenheilkunde*, 1910.

"An Improved Differential Elastic Tissue Stain." F. H. Verhoeff. *Journal American Medical Association*, 1911.

"Acute Toxemia caused by Infection of the Throat by the Colon Bacillus." C. B. Faunce. *Boston Medical and Surgical Journal*, 1911.

"The Pathology of Superficial Punctate Keratitis, with Remarks on Neuropathic Keratitis in General and on a Hitherto Undescribed Lesion of the Iris." F. H. Verhoeff. *Archives of Ophthalmology*, 1911.

FREDERICK H. VERHOEFF, M.D.,

Pathologist.

Oct. 26, 1911.

INTERIOR PATHOLOGICAL LABORATORY.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.

Conjunctivitis:	
acute	13
diphtheritic	1
follicular	6
gonorrhœal:	
in adults	32
in children	20
in infants	107
phlyctenular	29
purulent:	
in adults	15
in children	28
in infants	95
spring	2
trachomatous	40
with pannus	30
Cicatrix	2
Gonorrhœal metastatic ophthalmitis	1
Pterygium	2
Symblepharon	1
Tumor:	
epithelioma	3
Total	427

Cornea.

Foreign body	2
Keratitis:	
bullous	6
dendritic	7
fascicular	4
interstitial	60
marginal	3
neuropathic	17
phlyctenular	69
simple	1
superficial	2
syphilitic	1
traumatic	11
tubercular	3
ulcerative	73
with hypopyon	70
with perforation	6
Kerato-conus	4
Kerato-iritis	8
Kerato-scleritis	11
tubercular	3
Leucoma	10
adherent	8
inflamed	7
Staphyloma	25
Epithelioma	1
Total	412

Glaucoma.

Absolute	23
Acute	20
Chronic	25
Hemorrhagic	3
Secondary	8
Simplex	4
Hydrophthalmos	4
Total	87

Globe and Orbit.

Abscess of orbit	1
Angioma of orbit	1
Contracted orbit	4

Cysts of orbit	1
Disorganized globe	7
Exophthalmos	6
Hemorrhage of orbit	3
Panophthalmitis	11
Phthisis bulbi	14
Siderosis bulbi	1
Sympathetic ophthalmia	8
Tumors:	
gumma	2
sarcoma	9
Microphthalmos	1
Total	69

Lids.

Abscess	10
Chalazion	1
Cysts	2
dermoid	3
Ectropion	9
Entropion	17
Epithelioma	3
Ptosis	3
congenital	8
Trichiasis	7
Papilloma	1
Chemosis (idiopathic)	1
Total	65

Injuries.

Burns:	
cornea	14
conjunctiva	5
conjunctiva and cornea	24
conjunctiva and lids	4
cornea and lids	3
Laceration of lids	9
Non-penetrating:	
globe	6
with hyphæmia	5
with irido-dialysis	5
Penetrating:	
cornea	43
with foreign body	15
and prolapsed iris	28
with prolapsed iris	20
cornea and iris	8
with foreign body	5
cornea and lens	13
cornea, iris, and lens	14
with foreign body	5
with hemorrhage into vitreous	2
ciliary region	13
with foreign body	2
sclera	16
with foreign body	6
with prolapse of vitreous	5
rupture of	4
Total	274

Iris, Choroid, and Ciliary Body.

Angioma	2
Blocked pupil	13
Choroiditis	6
Gumma of ciliary region	1
Irido-cyclitis	11
Irido-dialysis	7
Iris bombé	6
Iritis:	
gonorrhœal	8
rheumatic	25
simple	17
with hypopyon	2
syphilitic	25
traumatic	12
tubercular	5
Uveitis	11
Hyalitis	6
Total	157

Lachrymal Apparatus.

Abscess	8
Dacryo-cystitis:	
acute	13
chronic	66
chronic with fistula	1

Fistula	2
Obstruction	1
Dislocated gland	1
Total	92

Lens.

Cataract:	
capsular	78
congenital	102
posterior polar	6
hypermature	6
immature	172
mature	182
pre-senile	7
traumatic	62
with high myopia	4
Dislocated lens:	
into anterior chamber	5
into posterior chamber	13
Total	637

Muscle and Nerve Affections.

Exo-hyperphoria	2
Hyperphoria	4
Herpes zoster ophthalmicus	3
Nystagmus	2
Paralysis of abducens	2
Paralysis of motor oculi	4
Strabismus:	
convergent	46
divergent	16
Tenonitis	1
Total	80

Optic Nerve.

Atrophy	10
Amblyopia:	
hysterical	3
toxic	2
Neuritis:	
optic	3
retrobulbar	2
Neuro-retinitis	1
Total	21

Retina.

Chorio-retinitis	1
Obstruction central artery	1
Separation of retina	19
Total	21

Sclera.

Episcleritis	4
Scleritis, tubercular	4
Total	8

Miscellaneous.

Abscess, peritonsillar	1
Arthritis, gonorrhœal	1
Bronchial fistula	1
Bronchitis, acute	2
Delirium tremens	1
Dementia, senilis	1
Diabetes	5
Ethmoiditis	5
Erysipelas	5
Hepatic cirrhosis	1
Impetigo contagiosa	4
Intestinal obstruction	1
Ludwig's angina	1
Lupus vulgaris	1
Marasmus	1
Measles	6
Melanoderma lenticularis progressiva	1
Meningitis, cerebro-spinal	1
Mitral insufficiency	3
Nephritis, acute	1
Paralysis, facial	1
Paratitis	2
Paresis, general	1
Pertussis	1
Pneumonia, broncho-	3
Pulmonary tuberculosis	1
Rachitis	1
Rhinitis, purulent	5
Rheumatism	1
Scabies	1

Scarlet fever	5
Sinusitis, frontal	1
Sinusitis, acute maxillary	1
Syphilis	10
Thrombosis, cavernous sinus	1
Tonsillitis, follicular	6
Thyro-glossal duct, persistent,	1
Ulcer, varicose	1
gonorrhœal	20
Vaginitis	18
Total	124

SUMMARY.

Conjunctiva	426
Cornea	412
Glaucoma	87
Globe and orbit	69
Injuries	274
Iris, choroid, and ciliary body	157
Lachrymal apparatus	92
Lens	637
Lids	65
Muscle and nerve affections	80
Optic nerve	21
Retina	21
Sclera	8
Miscellaneous	124

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OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Pterygium	1
Removal of powder	2
Stripping	12
Suturing	11
Symblepharon	1
Abscission	4
Total	31

Cornea.

Cauterizing kerato-conus	1
Paracentesis	16
Removal of powder	3
Saemisch	27
Section for foreign body	8
Tattooing	1
Total	56

Enucleations.

Disorganized globe	11
Glaucoma absolutum	6
Injury	33
Irido-cyclitis	1
Iritis	2
Panophthalmitis	8
Phthisis bulbi	11
Staphyloma	8
Sympathetic ophthalmia	3
Tumor of globe	7
Total	90

Evisceration.

Simple	2
Insertion of glass ball	10
Total	12

Iris.

Iridectomy:	
glaucoma	27
optical	37
preliminary	7
anterior synechiæ	5
Iridotomy	5
Prolapsed iris abscised	37
Sclerotomy	5
Total	123

Lachrymal Apparatus.

Abscess evacuated	10
Curettage of sac	6
Extirpation of sac	42
Probing of duct	6
Total	64

Lids.

Abscess evacuated	9
Ectropion	3
Entropion	5
Green's	5
Plastic	10
Ptosis	1
Hess	3
Pagenstecher	1
Tumor excised	8
Wound sutured	12
Electrolysis	3
Total	60

Muscles.

Advancement:	
external rectus	30
internal rectus	11

Tenotomy:	
external rectus	16
internal rectus	35
Total	92

ORBIT.

Abscess evacuated	2
Bands removed	1
Thiersch graft	2
Tumor excised	3
Kronlein	3
Total	11

SCLERA.

Anterior ciliary angiotomy	1
Sclerotomy	3
with magnet	5
Total	9

LENS.

Capsulotomy	80
Discission	123
Cataract extraction:	
in capsule	2
in capsule with iridectomy	3
simple	5
with buttonhole of iris	15
with iridectomy	138
with scoop	7
suction	9
Total	382

MISCELLANEOUS.

Adenectomy	1
Foreign body in anterior chamber	6
Magnet test	19
removal of intra-ocular steel	33
Total	59
Total number of operations	989

OUT-PATIENT OPERATIONS.

Foreign body cornea, removed,	1,642
Foreign body lid, removed	121
Foreign body conjunctiva, removed	106
Foreign body sclera, removed,	2
Abscess of lid	44
Chalazion	167
Hordeolum	58
Verruca	6
Lacerated lid sutured	7
Entropion	3
Pterygium	41
Dacryo-cystitis	14
Brow, abscess	3
	2,214

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Refraction.

Astigmatism	3,980
Hypermetropia	4,210
Myopia	503
Presbyopia	1,487
Total	10,180

Lids.

Abscess of	52
Blepharitis	352
squamous	95
ulcerative	97
Eczema of	30
Ectropion of	28
cicatricial	6
paralytic	1
senile	4
spasmodic	1
Entropion of	12
cicatricial	1
senile	4
Epicanthus	10
Herpes	2
Hordeolum	121
external	23
internal	25
Œdema of	47
Phthiriasis palpebrarum	2
Trichiasis	39
Congenital absence of tarsus	1
Total	953

Lachrymal Apparatus.

Dacryo-cystitis:	
acute	102
chronic	23
Fistula of lachrymal gland	2
Fistula of lachrymal sac	1
Mucocele	59
Occlusion of puncta	7
Stenosis of lachrymal duct	5
Pre-lachrymal sebaceous cyst	1
Pre-lachrymal syphilitic ulcer	1
Pre-lachrymal tumor	1
Total	202

Conjunctiva.

Argyrosis	1
Conjunctivitis	1,123
acute	928
chronic	321
follicular	102
gonorrhœal:	
adult	27
children	5
ophthalmia neonatorum:	
gonorrhœal	42
non-gonorrhœal	29
membranous	1
Parinaud's	1
phlyctenular	320
subacute (diplobacillus),	260
trachomatous	112
with pannus	33
vernal	5
Lymphoid hypertrophy of	12
Pterygium	97
Symblepharon	12
Total	3,431

Cornea.

Conical cornea	1
Keratitis	67
bullous	3
dendritic	7
ex acne rosacea	2

fascicular	8
interstitial	93
marginal	19
neuropathic	41
phlyctenular	421
with pannus	5
punctate	1
ribbon	2
serpiginous	1
tuberculous	3
ulcerative	421
with hypopyon	47
with perforation	3
with perforation e lagophthalmo	1
Leucoma of	133
adherent	37
inflamed	12
Macula of	152
Nebula of	138
Staphyloma of	12
Phlyctenular kerato-conjunctivitis	2
Kerato-iritis	2
Total	1,634

Sclera.

Episcleritis	32
Scleritis	14
tuberculous	2
Sclero-keratitis	12
tuberculous	2
Staphyloma	1
Total	63

Lens.

Aphakia	17
Cataract	16
capsular	17
congenital	24
perinuclear	3
complicated	1
cortical:	
posterior	1
diabetic	1
polar:	
anterior	2
posterior	2
pre-senile	2
senile	2
immature	83
incipient	138
mature	96
hypermature	7
Total	412

Uveal Tract.

Iris:	
anirida	1
atrophy of	2
coloboma of	5
artificial	1
congenital	4
iritis:	
etiology undetermined,	131
diabetic	1
gonorrhœal	1
rheumatic	61
serous	1
syphilitic	34
tuberculous	1
occluded pupil	7
irido-cyclitis:	
etiology undetermined,	16
specific	2
tuberculous	1
Choroid:	
atrophy of	1
choroiditis:	
etiology undetermined,	17
central	3
guttate	1
chorio-retinitis	6
congenital specific	2
senile	3
Uveitis	5
specific	3
Total	310

Retina.	
Amaurotic family idiocy	2
Arterio-sclerosis of retinal vessels	2
Obstruction of retinal artery	3
Obstruction of retinal vein	4
Œdema	2
Retinitis:	
etiology undetermined	5
albuminuric	5
diabetic	1
hemorrhagic	5
pigmentosa	7
proliferans	1
Separation of	22
Hemorrhage of	2
Total	61

Vitreous.	
Hemorrhage into	11
Opacities of	89
Synchisis scintillans	2
Total	102

Optic Nerve.	
Atrophy of	52
Congenital anomalies of	1
Optic neuritis	5
Retrobulbar neuritis	1
chronic	1
Neuro-retinitis	1
Toxic amblyopia	40
Congenital amblyopia	4
Total	105

Glaucoma.	
Acute	17
Chronic	26
Secondary	7
Simplex	8
Subacute	2
Total	60

Eyeball.	
Buphthalmos	3
Disorganized globe	26
Exophthalmos	14
Panophthalmitis	2
Microphthalmos	6
Total	51

Orbit.	
Cellulitis	1
Hemorrhage into	1
Periostitis of	1
Total	3

Disturbances of Motility.	
Nystagmus	43
Paralysis of:	
third nerve	31
ophthalmoplegia interna	7
diphtheritic paralysis of accommodation,	2
fourth nerve	1
fifth nerve	1
sixth nerve	17
seventh nerve	1
Strabismus:	
alternating	14
convergent	7
divergent	5
convergent	388
divergent	79
vertical	5
Ptosis:	
congenital	7
Total	608

Tumors.	
Conjunctiva:	
epithelioma	1
granuloma	2
lymphoma	1
sarcoma	2

Epibular:	
carcinoma	1
Intraocular:	
sarcoma	3
Lids:	
angioma	1
carcinoma (epithelioma)	12
chalazion	390
milium	4
nævus, vascular	2
papilloma	9
verruca	7
sebaceous cysts	8
dermoid tumors	2
xanthalasma	1
Total	446

Unclassified Conditions.

Albinism	8
Brow abscess	4
Exophthalmic goitre	2
Frontal sinusitis	21
Herpes zoster ophthalmicus	7
Jaundice	2
Molluscum contagiosa	1
Shallow cul-de-sac	1
Simulated blindness	1
Total	47

Injuries.

Conjunctiva:	
tear of	16
foreign body in	103
ecchymosis of	83
burn of	66
hyperæmia of	6
Total	274

Cornea.

Abrasion of	178
Cut of (without perforation)	8
Powder in (without perforation)	1
Foreign body in (without perforation)	1,563
Burn of	47
Keratitis	81
Total	1,878

Lids.

Burn of	33
Cut of	16
Tear of	7
Ecchymosis of	81
Emphysema of	3
Foreign body in	103
Total	243

Orbit.

Fracture of walls of	2
Fracture of walls of, with emphysema of	2
Total	4

Eyeball.

Contusion	42
with hyphemia	14
Irritation from foreign body	17
Total	73

Perforating Wound of Cornea.

Perforating wound of cornea	21
and lens	6
with prolapse of iris	9
with foreign body in globe,	89
Total	125

Perforating Wound of Ciliary Region.

Perforating wound of ciliary region with foreign body in globe	8

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

PERFORATING WOUND OF SCLERA.

Perforating wound of sclera without foreign body in globe	1
Perforating wound of sclera with foreign body in globe	10
Total	11

NON-PERFORATING INTRAOCULAR INJURIES.

Traumatic iritis	11
Traumatic irido-dialysis	5
Traumatic irido-donesis	2
Traumatic cataract	52
Traumatic dislocation of lens,	8
Total	78

MISCELLANEOUS.

Entered by mistake	6
No disease	21
Visions not refracted	2,031
Referred to other institutions,	172
Refused treatment	8
Referred to nose-room	58
Referred to ear-room	27
Unfit patients	252
Total	2,575

SUMMARY.

Refraction	10,180
Lids	953
Lachrymal apparatus	202
Conjunctiva	3,431
Cornea	1,634
Sclera	63
Lens	412
Uveal tract	310
Retina	61
Vitreous	102
Optic nerve	105
Glaucoma	60
Eyeball	51
Orbit	3
Disturbances of motility	608
Tumors	446
Unclassified conditions	47
Injuries	274
Cornea	1,878
Lids	243
Orbit	4
Eyeball	73
Perforating wound of cornea	125
Perforating wound of ciliary region	8
Perforating wound of sclera	11
Non-perforating intraocular injuries	78
Miscellaneous	2,575
Total	23,937

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF EXTERNAL EAR.

	R.	B.	L.
Dermatitis	0	1	0
Microtia	0	0	1
Erysipelas	1	0	0
Othæmatoma	1	0	0

II. DISEASES OF MIDDLE EAR.

a. *Acute Inflammations.*

Otitis media acuta	0	1	0
with cervical adenitis	1	0	0

b. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta	14	12	13
cum cellulitis of neck	0	1	0
cervical adenitis	0	1	0
congenital syphilis	0	2	0
dislocation of stapes	1	0	0
facial erysipelas	1	0	2
facial erysipelas and septico-pyæmia	0	1	0
facial neuralgia	1	0	0
facial paralysis and acute meningitis	1	0	0
impetigo of auricle	0	1	0
labyrinthitis	1	0	0
mastoiditis	105	8	91
mastoiditis and Bezold abscess	2	0	1
mastoiditis, Bezold, and perisinous abscess	1	0	0
mastoiditis and bronchitis	0	0	1
mastoiditis, bronchitis, and erysipelas	1	0	0
mastoiditis, bronchitis, and eczema	0	0	1
mastoiditis and carbuncle of neck	0	0	1
mastoiditis and cervical adenitis	1	0	1

	R.	B.	L.
mastoiditis and cellulitis of neck	1	0	1
mastoiditis and facial erysipelas	1	0	2
mastoiditis and facial erysipelas and diabetes mellitus,	0	0	1
erysipelas, toxic erosion of stomach, acute nephritis	0	0	1
mastoiditis, erysipelas, fracture of skull	0	0	1
mastoiditis and facial erysipelas et bronchial pneumonia	1	0	0
diabetes mellitus	0	1	0
empyæma of right maxillary sinus	1	0	0
extradural abscess	2	0	0
extradural abscess et septic metastasis	1	0	0
furunculosis of external auditory canal	2	0	5
acute sinusitis of accessory sinuses	1	0	0
lobar pneumonia	0	0	1
measles, acute articular rheumatism, and endocarditis	1	0	0
meningitis (pachy.)	1	0	1
perisinous abscess	4	0	2
perisinous abscess and extradural abscess	1	0	0
perisinous abscess and extradural abscess and Bezold abscess	1	0	0
perisinous and post-aural abscess	0	1	0
perisinous abscess and lateral sinus thrombosis	1	0	0
perisinous abscess, extradural abscess, and metastatic abscess	1	0	0
phlebitis of leg	0	0	1
post-aural abscess	19	1	19
post-aural abscess and facial erysipelas	1	0	0
post-aural abscess and bronchitis	0	0	1
post-aural abscess and pneumonia	0	0	1
post-aural abscess and extradural and perisinous abscess, meningitis, and diabetes mellitus	0	0	1
tempero-sphenoidal abscess	2	0	0
lateral sinus thrombosis	0	0	2
lateral sinus and facial erysipelas	1	0	0
mastoiditis, lateral sinus thrombosis, and meningitis	0	0	1
recurrent mastoiditis	0	0	6
recurrent mastoiditis, post-aural abscess	0	0	2
meningeal irritation	0	0	1
meningitis	1	0	0
otitis externa circumscripta	0	0	4
otitis externa circumscripta and post-aural abscess	0	0	3
otitis externa circumscripta and sub-auricular abscess	1	0	0
otitis externa diffusa	8	0	13

	R.	B.	L.
otitis externa diffusa and post-aural abscess	1	0	1
otitis externa diffusa and septic finger	0	1	0
post-aural abscess	4	0	2
septico-pyæmia	1	0	0

c. *Chronic Suppurative Inflammations.*

Otitis media suppurativa chronica	8	9	12
cum carious ossicles	2	2	1
labyrinthitis	2	0	1
polypi	3	3	5
facial paralysis	1	0	0
polypi and cholesteatoma	0	0	1
epithelioma	0	0	1
radical cavity	0	0	1
otitis externa diffusa	0	0	8
mastoiditis and erysipelas	0	0	2
atresia of canal and supernumerary tragus	1	0	0
malaria	0	1	0
vestibular fistula	0	0	1
mastoiditis and suppurating post-aural sinus	1	0	0
mastoiditis, cerebellar abscess, and meningitis	1	0	0
mastoiditis and labyrinthitis	2	0	0
mastoiditis, subdural and perisinous abscess, meningitis, and labyrinthitis	0	1	0
mastoiditis and meningitis	1	0	0
post-aural abscess (T. B.), impetigo contagiosa, and broncho-pneumonia	1	0	0
facial paralysis, atresia of canal, and facial erysipelas,	0	0	1
right radical cavity and patent Eustachian tube	0	0	1
sequestrum in middle ear and broncho-pneumonia	1	0	0
convalescing mastoid wound	0	0	1
post-aural abscess and lobar pneumonia	0	0	1
recurrent post-aural abscess and dactylitis	0	0	1
mastoiditis, polypi, cerebellar abscess, and meningitis	1	0	0
mastoiditis recurrent	8	0	4
mastoiditis recurrent and post-aural abscess	1	0	0
mastoiditis recurrent and cervical adenitis	1	0	0
mastoiditis recurrent with cholesteatoma and facial paralysis	0	0	1
mastoiditis	5	1	8
mastoiditis, cholesteatoma, post-aural abscess, and erysipelas	1	0	0
mastoiditis and facial paralysis	0	0	1

	R.	B.	L.
mastoiditis and cerebellar abscess	0	0	1
mastoiditis and perisinous abscess	1	0	0
mastoiditis recurrent with cholesteatoma and facial paralysis, labyrinthitis, and sequestrum	0	0	1
chronic mastoiditis	3	0	9
chronic mastoiditis and post-aural abscess	2	0	1
chronic mastoiditis, thrombosed lateral sinus	0	0	1
chronic mastoiditis and post-aural sinus	1	0	1
mastoiditis, thrombosed lateral sinus, and abscess of metastases knee and arm	0	0	1
mastoiditis and post-aural and pre-auricular abscess (T. B.)	0	0	1
mastoiditis and post-aural abscess	3	0	3
mastoiditis and cholesteatoma	4	0	11
mastoiditis and cholesteatoma and post-aural abscess	2	0	1
mastoiditis and post-aural and perisinous abscess	0	0	1
mastoiditis and convalescing epidemic cerebro-spinal meningitis	0	0	1
recurrent mastoiditis and facial erysipelas	0	0	1
mastoiditis, sinus thrombosis, and empyæmia	0	0	1
chronic mastoiditis and left facial paralysis and cervical abscess	0	0	1
recurrent mastoiditis, Bezold abscess, perisinous abscess, sinus thrombosis, septico-pyæmia, pregnancy	0	0	1
extradural abscess, sinus thrombosis, Bezold abscess, and septicæmia	1	0	0
extradural abscess, sinus thrombosis, and septicæmia, mastoiditis and epilepsy	0	0	1
polypi and sequestrum of labyrinth	0	0	1
radical mastoid cavity, facial paralysis, and chronic suppurative labyrinthitis	1	0	0
abscess tempero-sphenoidal lobe and meningitis	0	0	1
mastoiditis and tempero-sphenoidal abscess	0	0	1
mastoiditis, thrombosed lateral sinus, perisinous abscess, and septicæmia	0	0	1
facial paralysis and cervical adenitis	0	0	1

III. DISEASES OF THE INTERNAL EAR.

Traumatic labyrinthitis	0	0	2
Hemorrhagic labyrinthitis	1	0	0
Chronic suppurative labyrinthitis	1	1	0
Chronic labyrinthitis cum radical mastoid fistula and hysteria,	0	0	1
Labyrinthitis and arterio-sclerosis	0	1	0

IV. DISEASES OF NOSE AND THROAT.

	R.	B.	L.
Tonsils and adenoids	0	776	0
Adenoids	0	201	0
Deviation of septum	0	33	0
Deviation of septum cum external deformity	0	1	0
Fracture of nose	0	5	0
Fracture of nose, old	0	0	1
Deviation of septum with hypertrophied turbinates	0	12	0
Hyperplastic middle turbinates	0	0	1
Hyperplastic middle turbinates with polypi	0	0	1
Nasal polypi	0	0	2
Peritonsillar abscess	1	0	3
Atrophic rhinitis	0	5	0
Follicular tonsillitis	0	10	0
Acute tonsillitis with facial erysipelas	0	1	0
Syphilitic laryngeal stenosis with adhesion of cords	0	1	0
Epithelioma of larynx	0	1	0
Stricture of œsophagus	0	1	0
Laryngeal stenosis, alcoholism, and acute lobar pneumonia	0	1	0
Acute glossitis	0	1	0
Papilloma of larynx	0	1	0

V. DISEASES OF ACCESSORY SINUSES.

a. *Frontal Sinus.*

Frontal sinusitis acuta	3	2	0
with maxillary sinusitis	1	0	0
exopthalmos	1	0	0
acute ethmoiditis	2	0	0
acute ethmoiditis and acute nephritis	1	0	0
Frontal sinusitis chronica	0	2	0
with ethmoiditis	0	1	0
Recurrent frontal sinusitis	1	2	0
Recurrent frontal sinusitis with facial erysipelas	0	0	1
Post-operative frontal sinusitis	1	0	0
Syphilitic periostitis of frontal sinus	0	1	0
Depressed fracture of frontal bone			

b. *Antrum of Highmore.*

Acute	1	0	0
Chronic	3	2	4
with chronic ethmoiditis	0	1	0

c. *Ethmoidal Sinuses.*

	R.	B.	L.
Chronic ethmoiditis	1	0	1
Chronic ethmoiditis with nasal polypi	0	1	0
with exophthalmos			
chronic antrum	0	0	1
nasal polypi and meningitis, basilar	2	0	0
Carcinoma of ethmoid labyrinth	0	2	0
Osteoma of accessory sinuses (sphenoid)	0	1	0

VI. MISCELLANEOUS.

Super-orbital neuralgia	0	0	1
Cerebellar tumor			
Convalescing mastoid wound	1	0	2
with erysipelas	0	0	2
post-aural	1	0	0
cervical adenitis	1	0	0
Convalescing radical cavity	0	0	1
with foreign body	0	0	1
Sealed radical cavity with facial paralysis and labyrinthitis	0	0	1
Abscess of scalp	1	0	0
Post-operative wound from excision of thyro-glossal duct	1	0	0
Ranula	1	0	0
Carcinoma of face	1	0	0
Carcinoma of œsophagus	0	2	0
Facial erysipelas	0	2	0
Patent Eustachian t[illegible]e following mastoid	1	0	3
Cerebral hemorrhage and arterio-sclerosis	1	0	0
Sub-occipital abscess and pediculi capitis	1	0	0
Neurasthenia	1	0	0
Hysteria	3	0	0
Post-operative hemorrhage from turbinectomy	1	0	0
Old fracture of skull			
Lachrymal abscess	0	0	1
Alveolar abscess	2	0	0
Orbital abscess with facial erysipelas	1	0	0
Donor for blood transfusion	0	1	0
Septico-pyæmia	0	1	0
Infected bronchial cyst	1	0	0
Scarlet fever	0	2	0
Pneumonia	0	1	0
Pleurisy	0	1	0

	R.	B.	L.
Pulmonary T. B.	0	1	0
Nephritis	0	1	0
Heat prostration	0	1	0
Chicken-pox	0	1	0
Dermoid cyst of orbital nasal fossa	0	1	0
Tenio-synovitis			
Vaginitis	0	10	0
Papilloma of bladder	0	1	0

AURAL OPERATIONS.

Part. Disease. Operation.

1. Auricle.

	R.	B.	L.
Abcess of lobe incised	4	0	5
Cyst excised	4	0	6
Othæmatoma incised	2	0	1
Plastic	1	0	1
Papilloma excised	1	0	0
Amputation	1	0	0

2. Meatus.

Abscess incised	69	7	59
Circumscribed abscess incised	22	1	20
Foreign body removed	5	0	4
Plastic	0	2	0

3. Tympanum.

Drum membrane, paracentesis	501	360	458
Carious ossicles removed	5	0	5
Granulations in tympanum removed	2	0	0
Polyp removed	38	2	37

4. Nose, Throat, and Pharynx.

Abscess septum incised	0	1	0
nose, spur removed	0	2	0
turbinate removed	0	70	0
turbinate and ethmoid cells curetted	0	8	0
polypus removed	0	36	0
Naso-pharynx, adenoids removed	0	139	0
adenoids and tonsils removed	0	797	0
Tonsils removed	0	35	0
Curettement of Eustachian tube	0	4	0
Submucous operations (spurs and septum)	0	191	0
Submucous operations (adenoids removed)	0	14	0
Abscess nose incised	0	2	0
Tip of uvula removed	0	2	0
Polyp middle turbinate removed	0	1	0

	R.	B.	L.
Furunculosis vestibule of nose incised	0	1	0
Osteoma spheroid removed	0	1	0
Frontal sinus	9	0	1
Frontal sinus and antrum	0	1	0
Killian operation	2	0	0
Ethmoids curetted	0	14	0
Peritonsillar abscess incised	0	11	0
Antrum opened	0	14	0
Exploration of œsophagus	0	3	0
Hæmatoma septum incised	0	1	0
Retro-pharyngeal abscess incised	0	6	0
Epithelioma nose removed	0	1	0
Papilloma larynx removed	0	2	0
Foreign body nose removed	0	1	0

5. Mastoid Region.

Abscess, post aural, incised	8	0	1
Cervical abscess incised	1	0	1
Cervical glands incised	5	0	3
Mastoid operations (acute)	123	0	141
Mastoid operation with ligation of jugular	10	0	2
Mastoid operation with brain abscess	3	0	1
Ligation of jugular vein	0	3	0
Ligation of jugular vein and lateral sinus	0	1	0
Radical mastoid operation	15	0	12
Skin graft	9	0	4

Miscellaneous Operations.

Ranula curetted	0	1	0
Various operations	6	0	8
Cleft palate operation	0	1	0
Transfusion	0	1	0

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L.
Abscess	2	0	1
Abscess of lobe	2	0	6
Abscess of tragus	1	0	2
Pre-auricular abscess	1	0	1
Dermatitis	6	0	2
Eczema	3	0	3
Erysipelas	51	21	62
Intertrigo	4	0	2
Perichondritis	4	0	3
Impetigo	1	1	2

b. *Deformities.*

Microtia	3	0	4
Microtia with atresia canal	1	0	1
Congenital fistula of auricle	1	0	1
Congenital lop ears	0	2	0

c. *Neoplasms.*

Cyst of auricle	2	0	3
Cyst of lobe	2	0	4
Epithelioma	3	0	2
Papilloma	0	0	1
Carcinoma	0	0	1
Syphilitic	0	0	1
Chondroma	0	0	1
New growth with facial paralysis	0	0	1

d. *Trauma.*

Congelatio	6	0	2
Othæmatoma	3	0	5
Lacerated wound	3	0	4

2. Meatus.

	R.	B.	L.
Cerumen	410	629	537
Atresia	0	2	0
Abscess	2	0	4
Eczema	16	19	28
Exostosis	0	1	0
Acute diffuse inflammation	37	1	31
Chronic diffuse inflammation	10	0	2
Acute circumscribed inflammation	116	0	98
Acute circumscribed inflammation, with mastoiditis and pre-auricular abscess	1	0	0
Foreign body (animate)	14	0	10
Foreign body (inanimate)	10	0	12
Ulceration	1	0	0
New growth	1	0	0

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	4	0	3
Trauma indirect	1	0	0
Myringitis	2	0	3

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	169	138	102
With adenoids	81	72	98

Chronic Secretory Catarrhal Inflammation.

Mucous	310	498	327
With adenoids	198	297	124
With facial paralysis	0	0	1
With perichondritis and facial erysipelas	0	0	1
With labyrinthine disease	2	3	4

b. *Adhesive Catarrhal Inflammation.*

Secretory	29	12	39
Secretory with labyrinthine disease	2	0	4

c. *Acute Inflammation.*

Simple	397	237	283
With adenoids	49	27	68
mastoiditis	55	0	39

	R.	B.	L.
With facial paralysis	4	0	3
meningitis	0	0	1
post-aural abscess	4	0	5
mastoid abscess	1	0	1

d. *Acute Suppurative Inflammation.*

Simple	320	192	246
With cervical abscess	1	0	2
erysipelas	2	0	4
circumscribed abscess	2	0	3
mastoiditis	138	10	176
mastoiditis, frontal and ethmoidal sinusitis	1	0	1
mastoiditis and meningitis	1	0	1
mastoiditis and facial paralysis	1	0	1
mastoid fistula	1	0	2
post-aural abscess	31	0	27
facial paralysis	1	0	3
adenoids	62	21	39

e. *Chronic Suppurative Inflammation.*

Simple	339	629	314
With atresia canal	1	1	1
mastoiditis	29	0	19
mastoiditis and meningitis	5	2	5
mastoiditis and labyrinthitis	0	1	0
mastoiditis and cervical adenitis	4	0	2
mastoiditis and post-aural sinus	1	0	1
torticollis	1	0	1
caries of the ossicles	10	0	14
facial paralysis	3	0	2
polypus in the tympanum	59	1	65
granulations in the tympanum	42	6	52
post-aural abscess	2	0	4
adenoids	29	4	37
Effect of suppurative inflammation	197	79	68
labyrinthine disease	2	0	1
facial paralysis	1	0	1
facial paralysis and syphilis of throat	1	0	0
adenoids	29	2	26

IV. NEUROSIS OF THE MIDDLE EAR.

Otalgia from teeth	38	0	19
pharynx	1	0	1

V. DISEASES OF THE LABYRINTH.

	R.	B.	L.
Labyrinthitis	12	19	10
Anæmia	1	0	2
Concussion	1	0	1
Hemorrhage	4	0	3
Trauma	1	0	1

MISCELLANEOUS.

Adenoids and tonsils	0	247	0
Adenoids	0	127	0
Lingual tonsils	0	2	0
Tonsils	0	50	0
Hypertrophic rhinitis	0	57	0
Atrophic rhinitis	0	71	0
Purulent rhinitis	0	37	0
Vaso-motor rhinitis	0	4	0
Abscess (nose)	0	6	0
Osteoma (nose)	0	1	0
Peritonsillar abscess	0	10	0
Polyp (nose)	0	31	0
Spur (nose)	0	69	0
Foreign body (nose)	0	4	0
Deaf-mutism	0	12	0
Deflected septum	0	162	0
Deflected septum with external deformity	8	2	0
Frontal sinus (acute)	41	0	27
(chronic)	5	0	1
Frontal sinus and antrum (acute)	2	0	2
Frontal sinus (acute) with orbital abscess	3	0	2
Ethmoiditis	0	25	0
Sphenoiditis	0	1	0
Acute pharyngitis	0	26	0
Chronic pharyngitis	0	14	0
Fracture nasal bones	0	2	0
Ethmoiditis and antrum	0	2	0
Facial paralysis	4	0	2
Facial erysipelas	0	3	0
Papilloma larynx	0	1	0
Hæmatoma septum	0	1	0
Stenosis of glottis	0	1	0
Sarcoma (jaw)	0	0	1
Sarcoma (nose)	0	1	0
Cyst turbinate	0	1	0
Hypertrophy turbinate	0	101	0

	R.	B.	L.
Adenitis	0	29	0
Adenitis with tonsillitis			
Abscess septum	0	2	0
Deformity (nose)	0	5	0
Lupus (nose)	0	1	0
Trauma	0	1	0
Epistaxis	0	19	0
Eczema (nose)	0	6	0
Fibroma (nose)	0	1	0
Specific nose and throat	0	10	0
Cleft palate	0	2	0
Bifid uvula	0	1	0
Ulceration septum	0	2	0
Ulceration tonsil	0	1	0
Specific pharynx	0	4	0
Tongue-tie	0	2	0
Syphilis	0	9	0
Foreign body œsophagus	0	1	0
Carcinoma œsophagus	0	2	0
Stricture of œsophagus	0	2	0
Specific laryngitis	0	1	0
Specific labyrinthitis	0	2	0
Retro-pharyngeal abscess	0	14	0
Anterior fracture cartilage of nose	0	1	0
Cyst tonsil	1	0	1
Œdema uvula	0	2	0
Chronic tonsillitis	0	8	0
Leucoplakia	0	1	0
Post-diphtheritic paralysis	1	0	1
Chancre lip	0	1	0
Tumor submaxillary gland	0	0	1
Myocarditis, arterio-sclerosis	0	1	0
Salpingitis (Eustachian)	0	1	0
Eloped	0	25	0
No diagnosis	0	32	0
No ear disease	0	69	0
Unfit patients	0	94	0

DONATIONS IN 1910–1911.

The Managers desire to acknowledge the receipt of the following donations in 1910–1911:—

Graphophone discs, from Mr. Herbert M. Sears.
Graphophone discs, from Mr. William H. Seabury.
Graphophone discs, from Mrs. H. B. Ryder.
Graphophone discs, anonymous.
Children's clothing, from Mrs. H. B. Ryder.
Children's clothing, from the Jamaica Plain branch of Needlework Guild.
Knit bandages, from Miss Ruth Peterson.
Knit bandages, from Mrs. R. N. Staigg.
Knit bandages, anonymous.
Art Exhibit tickets, from Dr. Myles Standish.
Art Exhibit tickets, from Dr. George A. Webster.
Flowers, Boston Flower Mission.
Flowers, Rev. E. F. McLeod.
Flowers, Mr. Mitchell A. Dearborn.
Flowers, anonymous.
Spectacles and eyeglasses, anonymous.
Spectacles and eyeglasses, from Miss Bullard.
Children's tyers, from the Channing Circle, Arlington Street Church, through Mrs. Horatio Newhall.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr. Henry Parkman, Mr. William D. Sohier, Mr. William H. Seabury, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. C. P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. C. P. Curtis, Mr. John Lehan, Mr. Harvey Clap, Childs, Sleeper & Co., and Mrs. H. B. Ryder.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

Graduates of any general hospital training school in good standing will be admitted to the Post-graduate Course at the Infirmary.

The course of instruction consists of four months' practical work in the aural and ophthalmic wards, the Out-patient Department, operating, sterilizing, and dressing rooms, with thirty-two lectures and classes by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

The lectures follow a graded course, beginning with the anatomy, physiology, and pathology of the eye and ear, concluding with the applied treatment of diseases of the same and the relation of general nursing to the eye and ear specialties.

The clinical and practical instruction in the hospital is given by the House Surgeons, Superintendent of Nurses, and the permanent Head Nurses, who are thoroughly prepared to give individual instruction.

Nurses completing the four months' course, and passing a satisfactory examination, receive the diploma of the school.

Nurses, while on duty, are expected to wear the uniform of the school from which they graduated.

Members of the school are expected to pass three weeks on night duty.

It is possible for a limited number of nurses, after completing their regular course, to arrange for a longer period of instruction in any one branch, should they desire.

The remuneration is $72 for the full course.

Application papers furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary of Boston the sum of dollars, to be applied to the uses of said Infirmary.

EIGHTY-SEVENTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1912

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the Superintendent.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

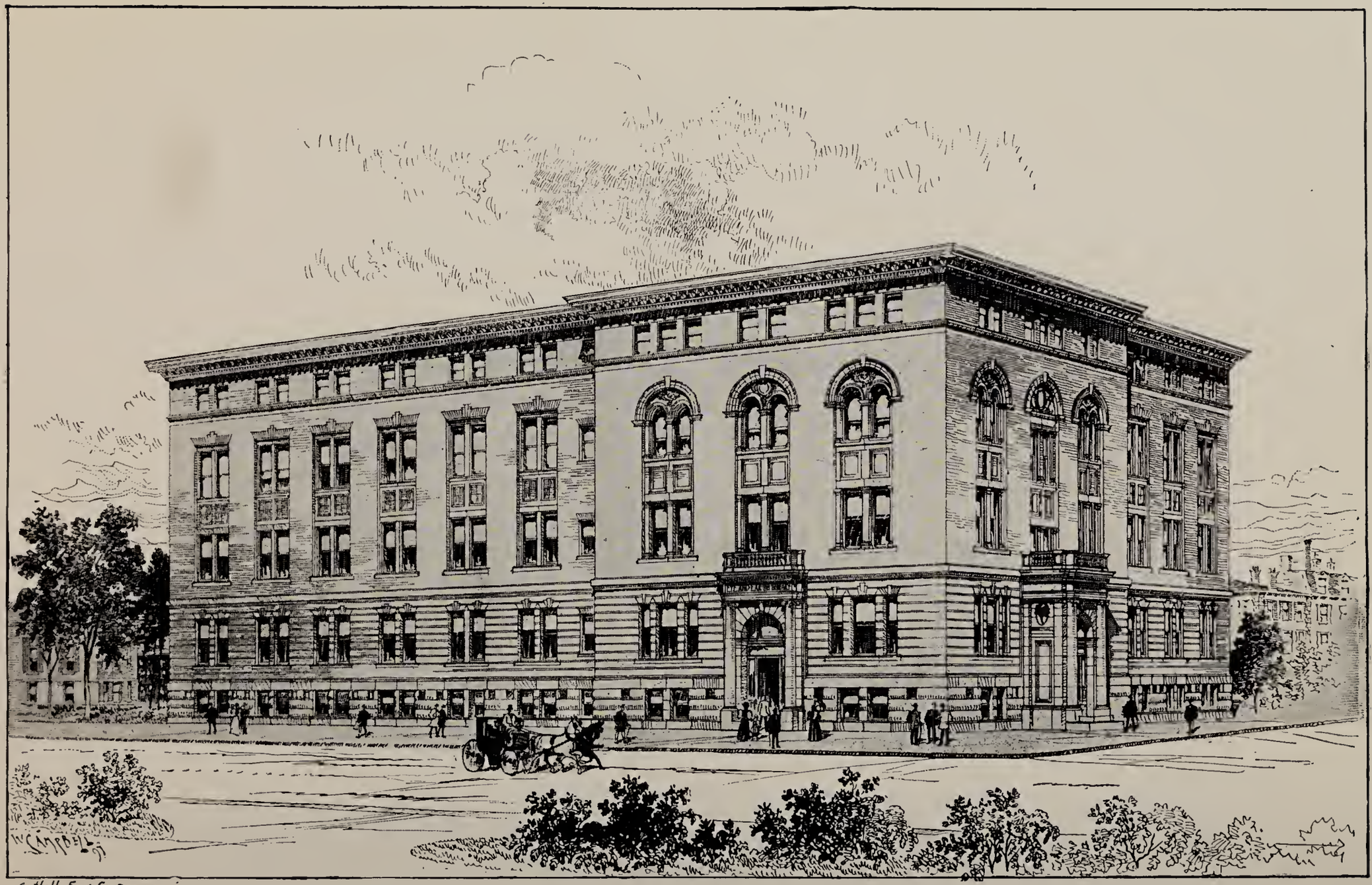
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy**, and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-SEVENTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1912

BOSTON
PRESS OF GEO. H. ELLIS CO.
1913

OFFICERS

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

BOARD OF MANAGERS, 1912.

AUGUSTUS HEMENWAY.
Feb. 5, 1878.

GEORGE P. GARDNER.
Feb. 1, 1887.

HENRY PARKMAN.
May 2, 1893.

*WILLIAM D. SOHIER.
Jan. 7, 1896.

WILLIAM H. SEABURY.
Oct. 27, 1898.

ROBERT HOMANS.
May 1, 1900.

WILLIAM S. SPAULDING.
Feb. 4, 1902.

DR. GEORGE B. SHATTUCK.
Oct. 30, 1902.

WILLIAM C. ENDICOTT.
Feb. 3, 1903.

RUSSELL G. FESSENDEN.
Feb. 3, 1903.

HERBERT M. SEARS.
Dec. 20, 1905.

CHARLES P. CURTIS.
Feb. 5, 1907.

ROBERT H. STEVENSON, JR.
Feb. 5, 1907.

*JOHN LAWRENCE.
Feb. 5, 1907.

President.

DR. GEORGE B. SHATTUCK.

Secretary.

ROBERT HOMANS, 1035 EXCHANGE BUILDING, 53 STATE STREET, BOSTON.

Treasurer.

HENRY PARKMAN, 53 STATE STREET, BOSTON.

Executive Committee.

GEORGE P. GARDNER. HERBERT M. SEARS. WILLIAM H. SEABURY.

Finance Committee.

WILLIAM S. SPAULDING. RUSSELL G. FESSENDEN. WILLIAM C. ENDICOTT.

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* Appointed by the Commonwealth.

Visiting Committees.

January,	Mr. SEABURY.	July,	Mr. PARKMAN.
	Mr. HEMENWAY.		Mr. STEVENSON.
February,	Mr. HEMENWAY.	August,	Mr. STEVENSON.
	Dr. SHATTUCK.		Mr. HOMANS.
March,	Dr. SHATTUCK.	September,	Mr. HOMANS.
	Mr. SPAULDING.		Mr. CURTIS.
April,	Mr. SPAULDING.	October,	Mr. CURTIS.
	Mr. FESSENDEN.		Mr. ENDICOTT.
May,	Mr. FESSENDEN.	November,	Mr. ENDICOTT.
	Mr. SEARS.		Mr. GARDNER.
June,	Mr. SEARS.	December,	Mr. GARDNER.
	Mr. PARKMAN.		Mr. SEABURY.

SURGICAL BOARD.

Consulting Ophthalmic Surgeons.

HASKET DERBY, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
H. BECKLES CHANDLER, M.D.

Consulting Aural Surgeons.

J. ORNE GREEN, M.D.
CLARENCE J. BLAKE, M.D.

Ophthalmic Surgeons.

MYLES STANDISH, M.D.
FREDERICK E. CHENEY, M.D.
EDWIN E. JACK, M.D.
ALEXANDER QUACKENBOSS, M.D.
HENRY H. HASKELL, M.D.
EDMUND W. CLAP, M.D.

Aural Surgeons.

FREDERICK L. JACK, M.D.
EDWARD M. PLUMMER, M.D.
EUGENE A. CROCKETT, M.D.
PHILIP HAMMOND, M.D.

Assistant Ophthalmic Surgeons.

FRED M. SPALDING, M.D.
A. GARDNER MORSE, M.D.
ELWOOD T. EASTON, M.D.
FREDERICK H. VERHOEFF, M.D.
ROBERT G. LORING, M.D.
PETER H. THOMPSON, M.D.

Assistant Aural Surgeons.

GEORGE A. WEBSTER, M.D.
D. HAROLD WALKER, M.D.
HARRIS P. MOSHER, M.D.
ALFRED M. AMADON, M.D.
WILLIAM F. KNOWLES, M.D.
GEORGE H. POWERS, Jr., M.D.
GEORGE L. TOBEY, Jr., M.D.
FRANCIS P. EMERSON, M.D.

Junior Assistant Ophthalmic Surgeons.

CHARLES D. JONES, M.D.
SAMUEL J. McDONALD, M.D.
GEORGE S. DERBY, M.D.
W. HOLBROOK LOWELL, M.D.
GEORGE H. RYDER, M.D.
EDWARD K. ELLIS, M.D.

Ophthalmic Clinical Assistants.

P. SOMERS SMYTH, M.D.
EDWARD D. HURLEY, M.D.
RALPH A. HATCH, M.D.
HENRY HAWKINS, M.D.
J. J. CORBETT, M.D.
FREDERICK J. McINTIRE, M.D.
HENRY G. CARROLL, M.D.
EDWARD M. MURPHY, M.D.
WILLIAM LIEBMAN, M.D.

Aural Clinical Assistants.

BERTRAM H. CASWELL, M.D.
DANA W. DRURY, M.D.
CALVIN B. FAUNCE, Jr., M.D.
PERCY C. PROCTOR, M.D.
TIMOTHY J. SHANAHAN, M.D.
FREDERICK L. BOGAN, M.D.
JOHN H. BLODGETT, M.D.
WM. W. HENNESSEY, M.D.
JOHN L. LOUGEE, M.D.

Pathologist.
FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.
GEORGE A. WATERMAN, M.D.

Consulting Surgeons.
SAMUEL J. MIXTER, M.D. LINCOLN DAVIS, M.D.

Consulting Physicians.
THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
ROGER I. LEE, M.D.

Consulting Anæsthetist.
ARTHUR M. DODGE, M.D.

Roentgenologist.
WILLIAM LIEBMAN, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.
HAROLD B. CHANDLER, M.D. ARTHUR F. JACKLE, M.D.

Ophthalmic Externe.
CLIFFORD B. WALKER, M.D.

Aural House Surgeons.
A. LOUIS MacMILLAN, Jr., M.D. HARRY M. NICHOLSON, M.D.

Aural Externe.
J. EDWARDS KERNEY, M.D.

EXECUTIVE OFFICERS.

Superintendent.
FARRAR COBB, M.D.

Matron and Superintendent of Nurses.
MARY COONAHAN.

Assistant to the Superintendent.
JOHN G. SCHROEDER.

Apothecary.
CHARLES E. NUTTER.

Assistant Matron.
HARRIET L. HARRIS.

Supervisor.
MITCHELL A. DEARBORN.

Opticians.
ANDREW J. LLOYD COMPANY.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear. It is the second oldest hospital in New England. With its capacity of 215 beds for ward patients, its out-patient clinic, its special building for the treatment of contagious ophthalmia, its pathological building, and its Nurses' Home, it is the largest hospital for diseases of the eye and ear in the world. Ever since it was started, it has given the best treatment to poor people, many of whom without its aid would have been unable to gain a livelihood. Its work has increased year after year, as the population of the City and State and other New England States has increased.

The Board of Managers making this report feel that the institution at the present time, with its capacity for carrying on a great charitable work, should be more than ever before an object of interest to the people of the State and City.

At the outset the Managers emphasize the great need of special contributions and gifts of money to meet the annual large deficit in running expenses and also to be used in Social Service work, the work in contagious ophthalmia, and in providing proper facilities for fresh-air treatment out of doors. The needs of the Infirmary as well as the possi-

bilities for good from money contributed will be explained later in this report.

In 1899 the new hospital building on the corner of Charles and Fruit Streets, with a capacity of 160 beds, was completed. At that time it seemed that sufficient accommodation for the proper treatment of patients had been provided for many years, but not more than five years had passed before the Board of Managers realized that the Infirmary could not take care of the large number of deserving cases needing treatment in the wards unless some radical changes were made. It was necessary to provide increased facilities, and, to do this, a Nurses' Home, four stories in height, on land owned by the Infirmary on the corner of Charles and Cambridge Streets, overlooking the Charles River Basin and the new Boulevard, was constructed. This building is large enough to properly house 100 nurses and domestic servants.

When the Nurses' Home was completed in 1909, it was possible so to change the top floor of the hospital building, formerly occupied for nurses and servants, as to provide 50 additional beds for patients in wards and rooms as well as additional operating and service rooms. To accomplish this, it was necessary to provide new quarters for the pathological work of the Infirmary, and, therefore, a special pathological building was constructed, immediately adjoining the main hospital building. The total cost of the Nurses' Home, alterations in the main building to secure 50 additional beds, and the construction of the new pathological laboratory was $131,041.13.

In the last two years, because of the increased number of beds, more charitable work has been done by the Infirmary than in any year of its history. The 50 beds added on the remodelled top floor had been in almost constant demand.

In the last year the total number of patients admitted to the wards was 3,520, of which number 1,463 were chil-

dren under fourteen years of age. The daily average number of patients in the wards of the hospital was 162. The total number of days' board furnished was 59,538. Of this, 45,987 days were for free patients. The largest number of ward patients in one day was 191; the smallest, 107. The number of new patients applying for treatment in the out-patient department was 28,447. The total number of patients, new and old, in the Out-patient Department was 58,255. Of the 28,447 new out-patients, 15,617 were residents of the State of Massachusetts outside of Boston, and 227 came from other States. Of the 3,520 patients treated as inmates in the wards, 1,856 were citizens of Massachusetts cities and towns outside of Boston. 1,534 were residents of Boston.

It may be seen from the list of occupations that the patients applying for treatment, as given in the detailed report of the Superintendent, were artisans, mechanics, clerks, and others of the wage-earning class who were unable to pay a fee for professional services. During the year 548 were refused treatment, being considered cases unfit for a charitable institution.

The following tabulated statement in regard to numbers of patients treated will be of interest, and these figures should be multiplied by three or four to show the total attendance of patients old and new, out-patients and house patients, who pass through its different departments in a year.

The number of new patients treated in the wards and out-patient department in

1849 was	2,002	1897 was	21,594
1877 "	9,087	1900 "	28,427
1890 "	15,289	1912 "	31,967

The number of patients treated in the wards in

1900 was	2,180	1912 was	3,520

GARDNER BUILDING.

(A DETACHED BUILDING FOR THE TREATMENT OF CONTAGIOUS OPHTHALMIA, MOST OF THE PATIENTS INFANTS AND CHILDREN.)

The Board of Managers feel that they cannot too often or too emphatically call attention in each annual report to the greatest work of the Infirmary; that is, the care of cases of contagious ophthalmia in a special building given by Mr. George A. Gardner for the treatment of contagious diseases of the eye, with special reference to cases of ophthalmia neonatorum. This work is of the utmost value sociologically. It annually saves the Commonwealth a large amount of money in the prevention of blindness. This Gardner Building is the largest and most important special building for this work of any known institution. It is a detached structure, three stories high, with a capacity of 40 beds and isolating facilities. It costs annually to maintain this building over eighteen thousand dollars. In the past year 267 cases of contagious eye disease were treated, of whom 137 were infants under one and one-half years of age. A detailed report of this special work will be found in the report of the Superintendent. It is sufficient to say of the contagious ophthalmia in infants that no eyes were lost after admission. One of the most important parts of the work of the Social Service Department, to which department attention will be called later, has been in the following up of the cases of contagious ophthalmia, especially of infants after they were discharged from the institution and in investigating the circumstances of those unfortunate cases of children who came to the Gardner Building too late for us to save the eyesight, thus co-operating in enforcing the law in regard to reporting cases of contagious ophthalmia.

During the last five years the Social Service Department has been in close touch, during the stay in the hospital and

after leaving the hospital, with 496 cases of contagious ophthalmia in infants. It is impossible to exaggerate the importance of the work done in the Gardner Building. It is the most difficult, dangerous, and expensive part of the hospital work. The Board of Managers earnestly desire to raise a special endowment fund for this branch of the work of the hospital.

SOCIAL SERVICE DEPARTMENT.

The Social Service Department on September 30 ended the fifth year of its work. During the first three years of its existence, with the financial assistance of a few devoted friends especially interested in sociological work and in the prevention of blindness, the organization and work of the Social Service Department was made possible. The Board of Managers always recognized the great value of this department, and two years ago decided to take increasing financial responsibility, feeling that the department should form a definite part of the hospital management, and one year ago voted to assume the entire financial responsibility of the department and to conduct the same as a definite part of the hospital system, with the assistance of an advisory committee composed of two members of the Board, two surgeons, the Superintendent, and four ladies specially interested in the work from its start.

A separate report of the year's work of the Social Service Department will be mailed with this published report of the Managers, and we feel that no one can read this without being impressed by the great necessity for and the great possibilities in such work. In taking over the entire cost of the Social Service Department, the Board of Managers have incurred an additional yearly expense of about $5,000. This extra money must be raised by gifts and subscriptions, and the Board of Managers most earnestly appeal for contributions for this purpose, and would especially welcome any

large gifts or bequests in the form of a special endowment for the continued expenses of this department.

ROOF GARDEN.

When the recent structural changes and new buildings were undertaken, the Managers carefully considered the construction of a garden on the roof of the main building, because they recognized that fresh-air treatment out-of-doors has become a most important part of the treatment of hospital patients, more important in most cases than any medicine. The cost of adapting the roof of the building for this purpose and carrying the passenger elevator to the roof would have been at least $10,000. At that time it was not possible to see a way clear to spending this large amount. The need of such a roof garden is great, and it is the hope of the Board that some person or persons may see fit to give sufficient money to construct such a place during the coming year.

MAINTENANCE.

Since the new buildings were opened in 1899 the Infirmary each year has had to meet a deficit in the expense account of from two to twenty thousand dollars, with the exception of the year 1911. In 1910 a deficit of $13,638 had to be met. Because of this large deficit and because of the expenditures during the year of $131,041 in new buildings and improvements to increase the capacity of the Infirmary 25 per cent., the State appropriation was generously increased by the Legislature. With this increased appropriation and most careful management, thereby reducing the per capita expense, the Managers have been able to show last year a very small balance of receipts above expenditures.

For the year 1912 a deficit of $5,533.07 must be met, caused by increased cost of food and other supplies and by the installation and maintenance of an X-ray plant.

The total cost of maintenance of the Hospital proper, Out-patient Department, Gardner Building, Pathological Laboratory, X-Ray Department, and Nurses' Home was $107,853.46, an increase of $5,034.86 over the year before.

During the past year the X-ray Department has been installed, and has been in operation about seven months. It has given excellent service. Prompt and accurate examinations can be made, and reported on immediately.

The cost per week, per house patient, was $12.67.

The receipts from all sources were $104,325.23.

The cost of subsistence, per inmate, per day, was 20½ cents.

The excess of payments over receipts this year was $5,533.07.

SOCIAL SERVICE RECEIPTS.

Income from Sears Fund	$960.00
Gifts	3,242.07
Transferred from Income Account	266.51
Total expenses of Social Service Department .	$4,468.58

In the coming year the Managers must raise much more money by special contributions than the year before, because of the necessity of spending more money than in the year past in the care of the buildings, increased cost of heat, light, and power, the X-ray plant, and refraction room. The ever-increasing work in all departments of the Infirmary also makes increasing expense from year to year.

Last year a special appeal for contributions was made, circular letters being sent out descriptive of the Infirmary and its needs. $3,242.07 was received in this way. The names of the people generously giving this sum are incorporated at the end of this report. The Managers will be compelled to go to the public again in this way the coming year, and are forced here in this report to make a special plea for contributions, as it will cost more money to do the

work of the Infirmary. There is need of a special fund for the Social Service Department, a special fund for the maintaining of the contagious building, and there is great need for a gift of at least $10,000 to provide facilities for fresh-air treatment.

The Managers note with regret the death of Dr. O. F. Wadsworth, Surgeon and Consulting Surgeon to the Infirmary for twenty years.

At the end of the year Dr. Myles Standish, Senior Ophthalmic Surgeon, resigned his position after a service of twenty-four years. The Managers accepted his resignation with regret, and appointed him to the Board of Consulting Surgeons.

The Managers regret the resignation, during the past year, of Dr. Alfred M. Amadon, owing to long-continued illness. He has given long and faithful service as Assistant Surgeon to the Aural Department of the Infirmary.

The Managers desire to acknowledge with thanks the following legacies and gifts which were received during the year. Of these a portion has been devoted to the Social Service work.

Estate of Julia M. Moseley, $6,190.47; estate of Catherine M. Lamson, $2,000; estate of Harriet F. Wolcott, $5,532; estate of Arthur Rotch, $226.30 and securities to the value of $11,000.

Shepherd Brooks, $5,000, for a fund for maintenance of the Gardner Building; Mrs. Shepherd Brooks, $5,000, for a fund for Social Service Work; from the estate of Mrs. Samuel T. Morse, $500, which has been applied to the Social Service Work.

Miss Elizabeth Sears, $100; "H. S. H.," $10; F. W. Hunnewell, $100; Mrs. F. S. Moseley, $50; Mrs. C. H. Dalton, $500; J. Murray Forbes, $50; Helen R. Blackmore, $5; George B. Shattuck, $25; Brown, Durrell Company, $25; Herbert M. Sears, $50; Mrs. Peter C. Brooks, $100; T.

NURSES' HOME

OPENED AUGUST 5, 1909.

Jefferson Coolidge, $200; W. B. Bird, $5; "A friend," $100; Mary R. Bremer, $20; Mrs. J. A. L. Blake, $15; C. W. Amory, $250; Charles A. Kidder, $25; Katherine E. Bullard, $100; Miss Elizabeth Sears, $25; Charles E. Cotting, $100; Elmer P. Howe, $25; Samuel S. Shaw, $15; George Wigglesworth, $50; Mrs. Charles P. Curtis, $100; W. D. Quimby & Co., $5; Robert H. Stevenson, Jr., $50; "Anonymous," $1; Mrs. Thornton K. Lothrop, $25; S. H. Rhodes, $5; Elizabeth B. Brown, $10; Ebed L. Ripley, $10; Gorham Brooks, $15; Hollingsworth & Whitney Company, $25; George P. Gardner, $50; Mrs. H. S. Grew, $25; Arthur T. Lyman, $100; Philip S. Sears, $25; Mrs. Nathaniel Thayer, $19; Mrs. Daniel D. Slade, $20; Mr. & Mrs. Allston Burr, $10; Charles N. Vialle, $25; Holtzer-Cabot Electric Company, $10; Dudley L. Pickman, $50.

JOHN LAWRENCE,
AUGUSTUS HEMENWAY,
GEORGE P. GARDNER,
Committee of the Board of Managers.

REPORT OF THE TREASURER.

INCOME, RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1912.

INCOME.

RECEIPTS:

Income from investments		$25,739.00
Appropriation from the State		45,000.00
Income from estate of Robert B. Brigham		1,000.00
Income from trustees, will of E. V. Ashton		1,700.00
Interest on bank deposit		848.17
Rebate on bank tax		108.61
Rent 15 Warren Avenue, Somerville, Mass.		314.85
From Superintendent, as per his report:		
Board of patients	$10,788.16	
Out-patient visits	5,394.80	
Medicines	8,527.75	
Opticians' accounts	4,516.57	
Sundries	387.32	29,614.60
		$104,325.23
Excess of payments		5,533.07
		$109,858.30

EXPENDITURES:

Running expenses of hospital per account of Superintendent		$107.853.46
Additional expenses, per account of Treasurer:		
Annual Report, printing and postage	$549.85	
Legal expenses	173.75	
Taxes on Somerville real estate	74.23	
Transfer to Social Service Work	266.51	
Sundries: insurance, auditors, etc.	940.50	2,004.84
		$109,858.30

SOCIAL SERVICE WORK.

RECEIPTS:

Income from Sears Fund	$960.00	
Gifts	3,242.07	
Transfer from Income Account	266.51	$4,468.58

EXPENDITURES:

Wages	$4,070.77	
Stationery, printing, etc.	182.50	
Street-car and railroad fares	148.96	
Sundries	66.35	$4,468.58

No. of Shares.	RAILROAD STOCKS.	*Book Value.*
135	Atchison, Topeka & Santa Fé R.R. Preferred	$10,792.66
100	Chicago Junction Ry. & Union Stock Yards Preferred	11,907.50
25	Concord & Montreal R.R.	1,346.25
62	Chicago & Northwestern Ry.	7,981.25
145	Fitchburg R.R. Preferred	14,205.35
20	Manchester & Lawrence R.R.	1,830.00
100	Manhattan Railway	14,187.50
50	New York Central & Hudson River R.R.	5,881.25
15	Northern R.R.	1,215.00
100	Union Pacific Preferred	8,156.25
5	Vermont & Mass. R.R.	410.00
		$77,913.01

BANK SHARES.

30	Merchants National Bank	$4,087.50

REAL ESTATE SHARES.

10	Boston Real Estate Trust	$10,100.75
1	Boston Ground Rent Trust	1,000.00
5	Bannigan Building Trust	500.00
2	Devonshire Building Trust	200.00
5	Warren Chambers Trust	500.00
		$12,300.75

No. of Shares.	Miscellaneous Shares.	*Book Value.*
241	Amer. Tel. & Tel. Co.	$29,691.62
100	American Sugar Refining Preferred	11,680.75
250	Ballardvale Mills Preferred	25,000.00
50	Mass. Electric Co. Preferred	5,000.00
100	West End Street Ry. Common	7,518.70
	Mass. Hospital Life Insurance Annuity	6,700.00
		$85,591.07

Book Value.	Railroad Bonds.	*Par Value.*
$8,785.78	Atchison, Topeka & Santa Fé R.R. 4%	$7,500.00
	Atchison, Topeka & Santa Fé R.R. 4%	4,000.00
4,545.40	Atchison, Topeka & Santa Fé R.R. 4%	5,000.00
9,925.00	Boston & Albany R.R. 4%	10,000.00
7,950.00	Burlington & Missouri River R.R. 6%	6,000.00
10,637.50	Chicago, Milwaukee & St. Paul R.R. 6%	10,000.00
5,244.00	Cincinnati, Ind., St. Louis & Chicago R.R. 6%	5,000.00
10,287.50	Chicago, Burlington & Quincy R.R. 4%	10,000.00
24,900.00	Chicago Junc. Ry. & Union Stock Yards 4%	25,000.00
3,000.00	Chicago Junc. Ry. & Union Stock Yards 5%	3,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,400.00	Chesapeake & Ohio R.R. 4½%	10,000.00
10,675.00	Fitchburg R.R. 4%	10,000.00
10,000.00	Iowa Falls & Sioux City R.R. 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield R.R. 5%	5,000.00
9,095.00	Kansas City, Memphis & Birmingham R.R. 5%	9,000.00
10,008.50	Kansas City, Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island R.R. 4%	25,000.00
13,776.70	New York Central & H. R. R.R. 3½%	15,000.00
4,736.25	Northern Pacific-Great Northern 4%	10,000.00
9,450.00	Oregon Short Line 4%	10,000.00
13,482.65	Pennsylvania R.R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain R.R. 5%	10,000.00
$225,914.28		$234,500.00

Book Value.	Miscellaneous Bonds.	*Par Value.*
$19,271.53	American Tel. & Tel. Coll. Trust 4%	$21,000.00
4,712.50	American Agricultural Chemical Co. 5%	5,000.00
8,000.00	Butte Electric & Power 5%	8,000.00
9,550.00	California Gas & Electric Co. 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
4,582.64	Edison Electric Co. Los Angeles 5%	5,000.00
9,850.00	Ga. Ry. & Elec. Co. 5%	10,000.00
9,812.50	Illinois Steel Co. 5%	10,000.00
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
4,781.25	Mass. Electric Co. 4½%	5,000.00
5,100.00	Mass., State of, 3%	5,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
9,625.00	United States Steel Corp. 5%	10,000.00
9,800.00	United Electric Securities 5%	10,000.00
10,150.00	Tacoma Railway & Power Co. 5%	10,000.00
3,000.00	Savannah Electric Co. 5%	3,000.00
$156,354.03		$159,000.00

CONDENSED TRIAL BALANCE, SEPT. 30, 1912.

Assets.

Stocks and Bonds: Investments (book value)	$562,160.64
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Cash on hand and in Superintendent's hands	37,831.14
	$1,163,333.40

Liabilities.

Capital, including various funds, legacies, etc.	$1,163,333.40

We have examined the accounts of the Superintendent monthly and the account of the Treasurer for the year ending Sept. 30, 1912, and found the same correct.

Patterson, Teele & Dennis,
Certified Public Accountants.

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,520, which is 71 more than last year.

Of the 3,520 house patients, 1,959 were males and 1,561 were females.

Number of patients treated in ophthalmic wards . .	1,646
Number of patients treated in aural wards	1,874

Of this number 267 were treated in the Gardner Building for contagious diseases. 134 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average number of patients treated in this building was 18.

Of the total number of patients treated in the wards 1,463 were children under fourteen years of age.

The daily average number of patients treated in the wards was 162.

The largest number of house patients treated on any one day was 191; the smallest number, 107.

Number of free patients admitted	1,993
Paying patients at $1 per week	46
Paying patients at $2 per week	111
Paying patients at $3 per week	223
Paying patients at $4 per week	9
Paying patients at $5 per week	147
Paying patients at $6 per week	6
Paying patients at $7 per week	294
Paying patients at $10 per week	532
Patients remaining in wards Sept. 30, 1911	159

The average stay per patient in the hospital under treatment was 16½ days.

59,538 days' board was furnished to patients. 13,551 days' board was paid, and 45,987 free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,534	Rhode Island	4
Mass. (excepting Boston)	1,856	Connecticut	1
Maine	13	Other countries	16
New Hampshire	82	Total	3,520
Vermont	14		

OCCUPATIONS OF HOUSE PATIENTS.

Males.—Ophthalmic.

Agents	5	Nurse	1
Bakers and cooks	7	Painters and glaziers	11
Barbers	2	Pedlers	9
Book-binders	2	Porters	5
Book-keepers	2	Policeman	1
Butchers	3	Pensioners	12
Blacksmiths	19	Plumbers and steam-fitters	2
Carpenters and wood-workers,	43	Printer	1
Chauffeurs	5	Railroad employees	9
Chiropodists	2	Roofer	1
Clerks	18	Salesmen	5
Clergyman	1	Seamen and fishermen	12
Coachmen and hostlers	7	Shippers	3
Druggist	1	Shoemakers	27
Electricians	2	Student	1
Engineers	5	Stone-cutters	25
Farmers	19	Store-keepers	5
Firemen	4	Tailors	4
Gardeners	4	Teacher	1
Hospital attendant	1	Teamsters	36
Janitors	3	Upholsterer	1
Laborers	181	Waiters	2
Machinists	27	Watchmen	8
Masons	8	Unclassified	17
Metal workers and moulders	28	Minors	291
Mill and factory employees	124		1,014
Musician	1		

Males.—Aural.

Artist	1	Machinists	13
Barbers	2	Masons	2
Blacksmiths	2	Metal workers and moulders	24
Book-keepers	6	Musician	1
Butchers	2	Policemen	6
Chauffeurs	6	Painters	7
Clerks	38	Porters	4
Clergymen	2	Pedlers	3
Carpenters and wood-workers,	11	Physicians and dentists	4
Cooks	6	Railroad employees	13
Coachmen and hostlers	7	Salesmen	3
Draughtsmen	5	Seamen and fishermen	9
Engineers	3	Shippers	2
Electricians	4	Shoemakers	32
Farmers	9	Students	2
Gardener	1	Tailors	15
Janitors	3	Waiters	8
Laborers	53	Unclassified	4
Laundryman	1	Minors	583
Mill and factory employees	48		945

Females.—Ophthalmic.

Agent	1	Nurses	7
Book-keepers	3	Saleswomen	2
Clerks	8	Settlement worker	1
Domestics	59	Stenographers	4
Dressmakers and seamstresses,	10	Teacher	1
Housewives	226	Minors	285
Mill and factory employees	25		632

Females.—Aural.

Book-keeper	1	Musician	1
Clerks	11	Nurses	14
Cooks	5	Saleswomen	5
Domestics	49	Stenographers	7
Dressmakers and seamstresses,	19	Telephone operators	6
Housewives	86	Waitresses	4
Lodging-house keepers	2	Minors	685
Mill and factory employees	34		929

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

573 were well.
2,556 were relieved.
107 were not relieved.
54 left against advice.
17 were not treated.
53 died.
5 were transferred to other hospitals for other diseases.
155 remaining in hospital Sept. 30, 1912.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 756 operations performed in the house, and 1,758 in the Out-patient Department.

In the Aural Departments there were 1,671 operations performed in the house, and 1,466 in the Out-patient Department.

OUT-PATIENT DEPARTMENT.

New patients treated:—			
Ophthalmic:	Males	9,927	
	Females	9,338	
			19,265
Aural:	Males	4,725	
	Females	4,457	
			9,182
	Total		28,447
Old patients treated:—			
Ophthalmic		16,412	
Aural		13,396	
			29,808
Total visits to Out-patient Department			58,255

RESIDENCES OF OUT-PATIENTS.

Boston	12,603	Connecticut	6
Mass. (excepting Boston)	15,617	Other States	8
Maine	83	Canada	2
New Hampshire	63	Other countries	8
Vermont	32		28,447
Rhode Island	25		

OCCUPATIONS OF OUT-PATIENTS.

Actors	14	Milliners	95
Agents	396	Mill and factory employees	3,094
Barbers	205	Moulders	34
Bakers	254	Musicians	16
Blacksmiths	348	Nurses	38
Bookbinders	336	Painters	368
Book-keepers	380	Pedlers	407
Butchers	174	Pensioners	17
Carpenters	525	Photographers	12
Chauffeurs	30	Physicians	6
Clergymen	25	Plumbers	50
Clerks	1,148	Policemen and letter-carriers,	179
Coachmen and hostlers	200	Porters	133
Compositors and printers	349	Railroad employees	240
Cooks	50	Soldiers	6
Domestics	723	Seamstresses	610
Draughtsmen	9	Shoemakers	657
Electricians	341	Stenographers	520
Engineers	256	Stone-cutters	118
Engravers	205	Store-keepers	80
Farmers	554	Students	208
Firemen	175	Tailors	766
Fishermen and seamen	238	Teachers	40
Hotel and lodging-house keepers	158	Teamsters	343
Housewives	3,825	Telephone and telegraph operators	145
Laborers	2,752	Waiters	158
Lawyers	8	Wood-workers	15
Masons	209	Unclassified	876
Messengers	79	Minors	4,251
Machinists	999		28,447

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 267 cases were treated in the special wards of the Gardner Building. Of these there were 99 cases of gonorrhœal ophthalmia, 20 occurring in adults, 4 in children, and 75 in infants soon after birth. There were 78 cases of purulent ophthalmia, non-gonorrhœal: 7 of these were in adults, 16 in children, and 55 in infants. At the time of entrance the cornea was involved in 25 cases of gonorrhœal ophthalmia, of which 10 were adults, 6 children, and 9 infants. The cornea became involved in but 5 after admission: 2 of these were adults, 2 children, and 1 infant.

6 cases of specific iritis with active secondary lesion of the disease were treated. There were also 4 cases of trachoma, 5 cases of acute conjunctivitis, 2 cases of phlyctenular keratitis, 3 cases of ulcerative keratitis, and 10 cases of interstitial keratitis.

60 cases were treated for measles, pertussis, erysipelas, and other diseases.

EXPENDITURES FOR 1912.

The total expenditure by the Superintendent has been $107,853.46, which is itemized as follows:—

Provisions		$21,285.45
Meat, fish, and poultry	$8,509.63	
Fruit and vegetables	2,345.22	
Bread and flour	1,236.70	
Milk	3,696.27	
Groceries	3,558.33	
Butter and eggs	1,939.30	
Wines, liquors, and alcohol		501.66
Water rates		1,251.20
Hospital	1,125.60	
Nurses' Home	125.60	
Soap and soap powder		953.42
Gas and electric lighting		1,432.04
Gas (hospital)	460.96	
Gas and electric lighting (Nurses' Home)	971.08	
Ice		775.32
Heat, electric lighting and power		6,209.80
Fuel		1,500.26
Kitchen	484.91	
Nurses' Home	1,015.35	
Medicines and drugs		5,301.88
Furniture and bedding		972.70
Stationery and printing		799.29
Wages		48,125.29
Officers	11,050.04	
Clerks (Superintendent's Office, Out-patient Department, and telephone)	2,850.58	
Engineers and watchman	1,870.00	
Carpenter and painters	2,210.46	
Laboratory assistant	542.77	
Ward masters, orderlies, and porters	8,147.78	
Apothecary assistants	1,108.58	
Elevator man	300.00	
Janitor (Nurses' Home)	420.00	
Head nurses, operating-room nurses, and etherizer,	5,124.98	

Post-graduate nurses	$288.00	
Special nurses	618.53	
Attendant nurses	5,032.88	
Housekeepers	740.00	
Kitchen and dining-room employees	2,621.09	
Laundresses	2,347.48	
General women and ward maids	2,336.12	
Seamstresses	516.00	
Optical and surgical instruments and instrument repairs		$1,155.28
Spectacles and eyeglasses furnished free to wards of the State of Massachusetts and very poor patients		599.05
Repairs, improvements, and new apparatus		6,093.07
Installing X-ray plant (apparatus, etc.)	1,050.59	
New ward floors	221.40	
Utensil sterilizer	80.00	
Sterilizer repairs	45.57	
Glass tops for tables (operating-rooms)	105.05	
Plumbing	443.52	
Laundry plant	182.62	
Steam plant	472.78	
Electric plant, lamps, fixtures, etc.	576.84	
Carpenter work and new lockers	1,172.28	
Painting, glazing, and care of ward floors	782.81	
Kitchen cooking apparatus	161.47	
Elevators and dumb waiters	396.28	
Furniture and bedding	63.55	
Locks, keys, hardware, and gas fixtures	209.20	
Roofing	21.21	
Grounds (hospital and Nurses' Home)	107.90	
House, ward, and surgical supplies		8,535.42
Kitchen and dining-rooms	232.58	
Linen-room	839.86	
Surgical supplies	3,678.38	
Ward supplies	1,673.25	
Bacteriological laboratory supplies	181.00	
Laundry and general supplies	1,044.78	
X-ray supplies	317.44	
Uniforms:		
Doctors	116.70	
Orderlies	164.36	
Patients	287.07	
Contingent and sundries		2,362.33
Sundries, nurses' library and training school	334.11	
Surgeons' library	108.80	
Postage and express	199.90	

Telephone	$1,025.78
Bacteriological laboratory	31.73
Advertising (House officers and Post Graduate School)	90.00
X-ray plates (Mass. General Hospital)	157.85
Wasserman tests	247.00
Office	117.15
Expert's services installing X-ray apparatus	50.00

The value of stock on hand Oct. 1, 1912, was:—

House and surgical supplies	$5,765.42	
Drugs and medicines	3,053.32	
Provisions	341.21	
		$9,159.95

The value of stock on hand Oct. 1, 1912, was	$9,159.95
The value of stock on hand Oct. 1, 1911, was	8,521.31
	$638.64

Deducting the difference in value of stock on hand Oct. 1, 1911, $638.64, and Oct. 1, 1912, gives the cost of maintenance per house patient per week as $12.60. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $21,285.45.

The daily average number of patients was 163; of officers and employees, including house and nursing staff, 119; or a total daily average of 281 persons. The number of weeks' board of all persons was 14,612, and the weekly cost per person for uncooked food supplies was $1.44, or 20½ cents per day.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 120 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, and Throat, Clinical Diseases, and Surgery of the same, Refraction, Aural and Ophthalmic Nursing and special nursing of Brain Abscess, the Ear in Art and History, the Hospital Formulary, Contagious Diseases, the Care of Infants, and the Nurse as a Social Worker. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, the preparation of infants' food, and in social service work.

The number of post-graduate and pupil nurses taking the course was 15. 12 graduates received the diploma of the school. 38 applications for the course were received during the year.

In addition to the regular special training, instruction in social service work and hospital management has been inaugurated. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head-nurses. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

LIVING ROOM. NURSES' HOME.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1903, to Oct. 1, 1912, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-patients Aural.*	*Total.*
1903	1,548	975	23,614	7,876	34,013
1904	1,546	1,269	23,953	8,782	35,550
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,343	8,213	34,472
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
1910	1,646	1,910	19,542	9,364	32,462
1911	1,700	1,749	20,408	9,467	33,324
1912	1,646	1,874	19,265	9,182	31,967
Totals . .	15,896	15,275	218,123	89,299	338,593

A total of 338,593 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 1,015,779.

FARRAR COBB, M.D.,
Superintendent.

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—In addition to the routine work, more than the usual amount of research has been carried on in the laboratory during the past year, much of which is still in progress. The more important investigations have had to do with tuberculosis of the eye, neuropathic affections, glaucoma, and the effect of ultra violet light upon the eye. The experimental work in connection with tuberculosis has given some interesting results, confirming a theory as to the origin of tuberculous keratitis and scleritis which had already been advanced from this laboratory, but which previously had not been based on experimental evidence. The investigations relating to ultra violet light are being conducted in collaboration with Mr. Louis Bell, Ph.D. Their purpose is chiefly to determine whether or not the modern electric light sources, such as the mercury vapor lamp, are deleterious to the eye. Previous investigations along this line have been numerous, but have given conflicting results. At the same time advantage is being taken of the opportunity to investigate the therapeutic possibilities of ultra violet light.

Publications:—

"Die Pathologie der Keratitis Punctata Superficialis, nebst Bemerkungen über Neuropathische Keratitis im Allgemeinen und eine bisher unbeschriebene Veränderung der Iris." F. H. Verhoeff. Translated by M. Feingold. *Archiv für Augenheilkunde*, 1911.

INTERIOR PATHOLOGICAL LABORATORY.

"An Epibulbar Sarcoma of Unusual Size." F. H. Verhoeff. *Archives of Ophthalmology*, 1912.

"Sclerosis of the Ligamentum Pectinatum and its Relation to Glaucoma." F. H. Verhoeff. *Journal American Medical Association*, 1912.

"An Improved Carbol Fuchsin Solution." F. H. Verhoeff. *Ibid.*

"Hemangio-Endothelioma of the Temporal Bone." F. L. Jack. Pathological Report by C. B. Faunce. *American Otological Transactions*, 1912.

FREDERICK H. VERHOEFF, M.D.,

Pathologist.

SEPT. 30, 1912.

REPORT OF THE X-RAY DEPARTMENT.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—This department began active work in the early part of March, 1912, and in the last seven months has already justified its existence. The unavoidable long waits for X-ray negatives are no longer experienced. Emergency cases can now be ready for examination within the hour if necessary. X-ray treatments for malignant disease of the lids, orbit, and accessory sinuses, have been given, and, as the value of X-ray therapeutics becomes more evident, there will be a freer application of this method of treatment to a large number and variety of eye and ear conditions.

The following is a rough classification of the work done up to Oct. 1, 1912:—

		+	—
Accessory sinuses:			
frontal and ethmoidal sinusitis		48	28
pansinusitis		2	
maxillary antrum sinusitis		5	4
foreign body in nares			1
Superior maxilla:			
necrosis		1	
exostosis hard palate		1	
impacted wisdom tooth		1	
dentigenous cyst		1	
Mastoiditis		35	22
Otitis externa diffusa		2	
Stenosis of œsophagus:			
carcinoma		1	1
post mediastinal tumor		1	
Larynx:			
fracture of thyroid cartilage		1	
adductor paralysis (pulmonary T. B. glands)		2	1
(?) foreign body			1
Foreign body in eye		34	46
localized in eye	25		
in orbit	3		
present, but not localized	6		
Orbit:			
sinus, from post-ethmoid cells		1	
fracture		3	1
Miscellaneous:			
pituitary tumor		1	1
fracture of nasal bones		1	
intubation tube in gastro-intestinal tract			1
tuberculosis of elbow joint		1	
interphalangeal infection			1
(?) entry of probe in frontal sinus			1
Total radiographs			251
X-ray treatments:			
carcinoma orbit		1	
epithelioma lid		1	
rodent ulcer lid		1	
Photographs		4	7
			258

WILLIAM LIEBMAN, M.D.,
Roentgenologist.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.

Conjunctivitis:	
acute	7
follicular	2
gonorrhœal:	
in adults	22
in children	4
in infants	85
phlyctenular	7
purulent:	
in adults	7
in children	16
in infants	55
trachomatous	27
with pannus	17
vernal	1
Cicatrix	2
Pterygium	3
Symblepharon	2
Teratoma	1
Chancre	2
Total	249

Cornea.

Keratitis:	
acne rosacea	1
dendritic	9
interstitial	53
marginal	2
neuropathic	9
phlyctenular	51
simple	10
superficial	3
traumatic	4
tubercular	7
ulcerative	55
with hypopyon	62
with perforation	3
Kerato-conus	1
Kerato-iritis	4
Kerato-scleritis	6
tubercular	3
Leucoma	9
adherent	4
inflamed	6
Staphyloma	9
Total	308

Glaucoma.

Absolute	13
Acute	8
Secondary	14
Simplex	29
Total	64

Globe and Orbit.

Abscess of orbit	3
Contracted orbit	8
Cyst of orbit	4
Disorganized globe	18
Exophthalmos	3
Hemorrhage of orbit	1
Panophthalmitis	6
Phthisis bulbi	8
Siderosis bulbi	3
Sympathetic ophthalmia	7
Tumors:	
gumma	1
sarcoma	1
Total	63

Lids.

Abscess	7
Chalazion	2
Cysts	1
dermoid	3
Ectropion	7
Entropion	14
Epithelioma	6
Ptosis	5
congenital	2
Trichiasis	6
Papilloma	2
Total	55

Injuries.

Burns:	
cornea	3
conjunctiva	10
conjunctiva and cornea	11
conjunctiva and lids	14
Laceration of lids	4
Non-penetrating:	
globe	13
with hyphæmia	8
Penetrating:	
cornea	26
with foreign body	13
with prolapse of iris	18
cornea and iris	3
with foreign body	4
cornea and lens	18
cornea, iris, and lens	20
with foreign body	2
with hemorrhage into vitreous	1
ciliary region	7
with foreign body	2
sclera	3
with foreign body	5
with prolapse of vitreous	8
rupture	4
Total	184

Iris, Choroid, and Ciliary Body.

Blocked pupil	18
Irido-cyclitis	13
Irido-dialysis	4
Iris bombé	6
Iritis	
rheumatic	27
simple	20
syphilitic	14
traumatic	5
tubercular	1
Uveitis	8
Total	75

Lachrymal Apparatus.

Abscess	3
Dacryo-cystitis:	
acute	9
chronic	47
Obstruction	12
Total	71

Lens.

Cataract:	
capsular	33
complicated	5
congenital	68
posterior polar	2
hypermature	12
immature	110
mature	180
pre-senile	14
traumatic	39
with high myopia	12
Dislocated lens:	
into anterior chamber	2
into posterior chamber	3
Total	480

Muscle and Nerve Affections.

Herpes zoster ophthalmicus	3
Nystagmus	4
Paralysis of motor oculi	1

Strabismus:	
convergent	38
divergent	20
Total	66

Optic Nerve.

Atrophy	5
Amblyopia:	
hysterical	2
toxic	5
Neuritis:	
optic	4
Neuro-retinitis	2
Total	18

Retina.

Chorio-retinitis	4
Separation of retina	10
Total	14

Miscellaneous.

Multiple sclerosis	1
Exophthalmic goitre	1
Thrombosis, cavernous sinus	1
Vaginitis	1
Total	4

Summary.

Conjunctiva	349
Cornea	311
Glaucoma	64
Globe and orbit	63
Injuries	184
Iris, choroid, and ciliary body,	75
Lachrymal apparatus	71
Lens	480
Lids	55
Muscle and nerve affections	66
Optic nerve	18
Retina	14
Miscellaneous	4
Total	1,754

OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Pterygium	2
Removal of powder	2
Stripping	11
Suturing	11
Symblepharon	1
Abscission	11
Total	28

Cornea.

Removal of powder	2
Saemisch	29
Total	31

Enucleations.

Disorganized globe	23
Glaucoma absolutum	10
Injury	15
Irido-cyclitis	2
Panophthalmitis	4
Phthisis bulbi	4
Staphyloma	4
Sympathetic ophthalmia	12
Tumor of globe	6
Total	78

Evisceration.

Simple	8
Insertion of glass ball	1
Total	9

Iris.

Iridectomy:	
anterior synechiæ	2
glaucoma	27
optical	25
preliminary.	2
Iridotomy	2
Prolapsed iris abscised	15
	73

Lachrymal Apparatus.

Abscess evacuated	5
Curettage of sac	1
Extirpation of sac	35
Total	41

Lids.

Abscess evacuated	2
Ectropion	2
Entropion	14
Plastic	7
Ptosis:	
Pagenstecher	1
Tumor excised	10
Wound sutured	1
Extirpation of tarsis	2
Total	39

Muscles.

Advancement:	
external rectus	39
internal rectus	8
Tenotomy:	
external rectus	8
internal rectus	38
Total	93

ORBIT.	
Abscess evacuated	12
Thiersch graft	4
Tumor excised	3
Total	19

SCLERA.	
Sclerotomy	6
with magnet	5
Sclerotomy	23
Total	34

LENS.	
Capsulotomy	45
Discission	60
Cataract extraction:	
in capsule	4
in capsule with iridectomy	3
simple	16
suction	9
with buttonhole of iris	4
with iridectomy	180
Total	311

MISCELLANEOUS.	
Removal of intra-ocular steel,	29
Total	29

Total number of operations	756

OUT-PATIENT OPERATIONS.

Abscess of lid	46
Abscess of brow	2
Chalazion	181
Conjunctiva sutured	5
Dacryo-cystitis	18
Entropion	2
Foreign body removed from conjunctiva	71
Foreign body removed from cornea	1,207
Foreign body removed from lid,	110
Hordeolum	53
Cut of lid sutured	11
Pterygium	52
Total	1,758

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Refraction.

Astigmatism	3,490
Hypermetropia	4,060
Myopia	683
Presbyopia	1,641
Emmetropia	164
Total	10,038

Lids.

Abscess of	36
Blepharitis:	
ex acne rosacea	2
squamous	397
ulcerative	173
Cellulitis	1
Eczema of	55
Ectropion of:	
cicatricial	22
senile	16
spasmodic	1
Entropion of:	
cicatricial	16
senile	6
Epicanthus	4
Hordeolum:	
external	302
internal	64
Lagophthalmos	2
Œdema	33
Phthiriasis palpebrarum	5
Trichiasis	55
Total	1,190

Lachrymal Apparatus.

Dacryo-cystitis:	
acute	74
chronic	90
Fistula of lachrymal gland	9
Mucocele	46
Eversion of puncta	1
Occlusion of puncta	55
Stenosis of lachrymal duct	49
Pre-lachrymal sebaceous cyst	1
Pre-lachrymal abscess	2
Cyst of lachrymal gland	1
Atresia of lachrymal puncta	1
Total	329

Conjunctiva.

Chancre of	1
Conjunctivitis:	
acute	1,091
subacute	545
chronic	752
follicular	212
gonorrhœal:	
adult	21
children	6
ophthalmia neonatorum	164
herpetic	9
eczematous	4
ex acne rosacea	2
phlyctenular	265
trachomatous	107
with pannus	41
vernal	4
Lymphoid hypertrophy of	9
Pterygium	116
Pinguecula	34
inflamed	8
Symblepharon	6
Blephro-conjunctivitis	41
Total	3,438

Cornea.

Conical cornea	5
Keratitis	9
bullous	1
dendritic	14
ex acne rosacea	9
fascicular	2
herpetic	5
interstitial	99
marginal	46
neuropathic	72
with hypopyon	2
phlyctenular	460
with pannus	4
punctate	14
ribbon	2
rodent ulcer	1
serpiginous	89
tuberculous	3
ulcerative	386
with perforation	6
with pannus	1
vascular	1
Leucoma of	141
adherent	39
inflamed	23
Macula of	186
Nebula of	167
Staphyloma of	22
Phlyctenular kerato-conjunctivitis	127
Kerato-iritis	6
syphilitic	2
Total	1,944

Sclera.

Episcleritis	59
Scleritis	19
tuberculous	4
Sclero-keratitis	23
tuberculous	4
Staphyloma	3
Total	112

Lens.

Aphakia	24
Cataract:	
congenital	26
perinuclear	1
complicated	6
cortical:	
posterior	1
hypermature	8
immature	153
incipient	151
mature	150
polar:	
anterior	2
posterior	4
pre-senile	2
Total	528

Uveal Tract.

Iris:	
anirida	2
coloboma of	8
congenital	3
hyperæmia	5
Iritis	71
gonorrhœal	6
rheumatic	94
syphilitic	57
tuberculous	2
Excluded pupil	11
Occluded pupil	10
Gummatous cyclitis	1
Irido-cyclitis	14
syphilitic	1
Choroid:	
atrophy of	14
coloboma of	4
Choroiditis	11
central	9
diffuse	4
disseminated	6
high myopic	3

Chorio-retinitis	10
congenital syphilitic	4
senile	2
syphilitic	2
Uveitis	12
syphilitic	6
Sympathetic inflammation	6
Persistent pupillary membrane,	3
Total	371

Retina.

Amaurotic family idiocy	3
Arterio-sclerosis of retinal vessels	18
Obstruction of retinal artery	9
Obstruction of retinal vein	10
Œdema of	2
Retinitis	2
albuminuric	8
circinate	1
diabetic	1
hemorrhagic	7
pigmentosa	11
proliferans	2
Separation of	31
Hemorrhage of	12
Persistent hyaloid artery	1
Total	118

Vitreous.

Hemorrhage into	14
Opacities of	91
Muscæ volitantes	4
Total	109

Optic Nerve.

Atrophy of	63
Coloboma of	1
Choked disc	12
Neuro-retinitis	13
hemorrhagic	1
Optic neuritis	15
Retrobulbar neuritis	2
Toxic amblyopia	37
Total	144

Glaucoma.

Absolute	16
Buphthalmos	6
Secondary	14
Simplex	64
Subacute	1
Total	101

Eyeball.

Anophthalmos	1
Cryptophthalmos	1
Disorganized globe	86
Exophthalmos	18
Panophthalmos	6
Microphthalmos	3
Total	115

Orbit.

Abscess of	2
Cellulitis	2
Periostitis:	
syphilitic	1
Tenonitis	1
Contracted orbit	4
Total	10

Disturbances of Motility.

Nystagmus	57
Paralysis of:	
third nerve	43
ophthalmoplegia interna	5
fourth nerve	1
fifth nerve	1
sixth nerve	31
seventh nerve	5
Esophoria	10
Exophoria	26
Strabismus:	
alternating convergent	21
convergence	463
divergence	114
Artificial mydriasis	30

Ptosis:	
congenital	16
Hyperphoria	10
Total	833

Tumors.

Conjunctiva:	
cyst	2
epithelioma	1
granuloma	3
lymphoma	1
Intraocular	8
Lids:	
epithelioma	14
chalazion	524
granuloma	3
milium	5
nævus	1
papilloma	10
verruca	11
sebaceous cysts	30
xanthalasma	3
Orbit:	
sebaceous cysts	4
tumors	4
	624

Unclassified Conditions.

Albinism	4
Anterior poliomyelitis	1
Atheromatous ulcer	1
Brow abscess	4
Carcinoma of nose	1
Dermatitis venanata	1
Erysipelas	4
Exophthalmic goitre	9
Facial paralysis	20
Frontal sinusitis	32
Hæmatoma	1
Hemianopsia	1
Herpes zoster ophthalmicus	18
Inflamed socket	4
Impetigo contagiosa	1
Keratalgia	1
Molluscum contagiosa	3
Simulated blindness	1
Supra-orbital neuralgia	12
Tic-convulsif	1
Total	120

Injuries.

Conjunctiva:	
burn of	71
chemosis	9
ecchymosis	111
foreign body in	71
hyperæmia	40
tear of	15
Total	317

Cornea.

Abrasion of	234
Burn of	56
Cut of	6
Foreign body in	1,207
Total	1,503

Lids.

Aneurysm	1
Burn of	39
Cut of	23
Ecchymosis of	79
Emphysema	3
Foreign body in	110
Tear of	5
Total	260

Orbit.

Emphysema of	2
Fracture of walls of	1
Total	3

Eyeball.

Contusion of	49
Irritation from foreign body	69
Rupture of globe	7
Total	125

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

PERFORATING WOUND OF CORNEA.

Perforating wound of cornea .	53
Perforating wound of cornea and lens	12
Perforating wound of cornea and iris	36
Perforating wound of cornea with prolapse of iris behind lens	13
Perforating wound of cornea with foreign body, globe .	27
Perforating wound of cornea with foreign body, lens .	1
Perforating wound of cornea with foreign body, iris . .	4
Perforating wound of cornea with foreign body, anterior chamber	3
Total	149

PERFORATING WOUND OF CILIARY BODY.

Perforating wound of ciliary region	11
Perforating wound of ciliary region with prolapse of iris	1
Total	12

PERFORATING WOUND OF SCLERA.

Perforating wound of sclera	5
with foreign body, globe .	1
Rupture of sclera	2
Total	8

NON-PERFORATING INTRAOCULAR INJURIES.

Traumatic conjunctivitis . . .	40
Traumatic iritis	18
Traumatic iritis with hyphæmia	22
Traumatic iritis with hypopyon,	1
Traumatic irido-dialysis . . .	10
Traumatic irido-donesis . . .	4
Traumatic irido-cyclitis . . .	4
Traumatic cataract	65
Traumatic dislocation of lens .	10
Traumatic rupture of choroid .	1
Total	175

MISCELLANEOUS.

No disease	31
Visions not refracted	680
Referred to other institutions .	387
Refused treatment	5
Referred to aural department .	270
Unfit patients	419
Total	1,792

SUMMARY.

Refraction	10,038
Lids	1,190
Lachrymal apparatus	329
Conjunctiva	3,438
Cornea	1,944
Sclera	112
Lens	528
Uveal tract	371
Retina	118
Vitreous	109
Optic nerve	144
Glaucoma	101

SUMMARY.—*Continued.*

Eyeball	115
Orbit	10
Disturbances of motility	833
Tumors	624
Unclassified conditions	120
Injuries to conjunctiva	317
Injuries to cornea	1,503
Injuries to lids	260
Injuries to orbit	3
Injuries to eyeball	125
Perforating wounds of cornea	149
Perforating wounds of ciliary region	12
Perforating wounds of sclera	8
Non-perforating intraocular injuries	175
Miscellaneous	1,792
Total	24,468

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF EXTERNAL EAR.

	R.	B.	L.
Eczema of auricle	1	0	0
Epithelioma of auricle	0	0	1
Exostosis	0	0	2
Microtia	2	0	0
Othæmatoma	0	0	2
Otitis externa furunculosa	9	2	2
cum cellulitis of neck	1	0	0
erysipelas	1	0	0
perichondritis	0	1	0
Perichondritis	0	0	1
Stenosis of canals, congenital	0	1	0
Venous angioma	1	0	0

II. DISEASES OF THE MIDDLE EAR.

a. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta	44	16	45
cum mastoiditis	57	4	45
mastoiditis (convalescing)	3	0	4
mastoid (recurrent)	2	0	3
mastoiditis et Bezold abscess	4	0	2
mastoiditis, Bezold abscess, perisinus abscess	2	0	1
mastoiditis, Bezold abscess, perisinus et extradural abscess	1	0	1
mastoiditis, Bezold abscess, perisinus et lateral sinus thrombosis	2	0	0
mastoiditis et convalescent pneumonia	1	0	1
mastoiditis, perisinus et cerebral abscess	0	0	1
mastoiditis et erysipelas	1	0	0
mastoiditis et extradural abscess	2	0	4
mastoiditis et facial paralysis	0	0	1
mastoiditis et labyrinthitis	1	0	0

	R.	B.	L.
mastoiditis et meningitis	3	0	0
mastoiditis et perisinus abscess	9	0	7
mastoiditis, perisinus abscess, et cervical adenitis	1	0	0
mastoiditis, perisinus abscess, et extradural abscess,	1	0	0
mastoiditis, perisinus et post-aural abscess	0	0	0
mastoiditis et polypi	0	0	0
mastoiditis et post-aural abscess	20	0	28
mastoiditis et post-aural abscess et facial erysipelas,	2	0	1
mastoiditis, post-aural abscess, cervical adenitis, et broncho-pneumonia	0	0	1
mastoiditis et otitis externa circumscripta	2	0	4
mastoiditis et pre-auricular abscess	0	0	1
mastoiditis et sinus thrombosis	3	0	1
measles et lobar pneumonia	0	1	0
meningitis	2	1	2
otitis externa furunculosa	9	1	9
pneumonia (lobar)	0	4	0
post-aural abscess	10	0	7
post-aural abscess et cervical adenitis	1	0	1
post-aural keloid	0	0	1
pre-auricular abscess	1	0	0

b. *Chronic Suppurative Inflammations.*

Otitis media suppurativa chronica,			
cum acute labyrinthitis	1	1	2
acute labyrinthitis et acute follicular tonsillitis			1
antral fistula	0	0	1
caries of antrum et sequestrum et fistula	1	0	1
carious ossicles	0	0	1
cholesteatoma	1	0	1
cholesteatoma, pachy, meningitis, et facial paralysis,	1	0	0
chronic mastoiditis et cholesteatoma	2	0	1
effusion of meningeal fluid	0	0	1
facial paralysis	1	0	3
facial paralysis et pneumonia	0	0	1
labyrinthitis (syphilitica)	0	0	1
mastoiditis	7	2	8
mastoiditis (convalescing)	1	0	3
mastoiditis (recurrent)	2	0	4
mastoiditis (sclerosed)	0	0	1
mastoiditis, basilar meningitis, extradural abscess, et sinus thrombosis	0	0	1
mastoiditis, carcinoma of middle ear et parotid gland, et facial paralysis	0	0	1

	R.	B.	L.
mastoiditis et facial paralysis	1	0	2
mastoiditis et meningitis	1	0	0
mastoiditis (Bezold) et perisinus abscess	1	0	1
mastoiditis, perisinus abscess, et meningitis	1	0	0
mastoiditis, perisinus, extradural, et tempero-sphenoidal abscess	0	0	1
mastoiditis, perisinus, post-aural, et extradural abscess	0	0	1
mastoiditis (Bezold), perisinus, extradural abscess, sinus thrombosis, et septicæmia	1	0	0
mastoiditis et post-aural abscess	4	0	4
mastoiditis (recurrent) et post-aural abscess	1	0	1
mastoid (post-operative) et post-aural sinus	0	0	1
mastoid sinus	1	0	0
meningitis	1	0	0
otitis externa furunculosa	5	0	3
radical cavity et fistula	0	0	1

III. DISEASES OF THE INTERNAL EAR.

Labyrinthitis	3	3	2
Suppurative (chronic)	1	0	0
Syphilitic	0	5	2
Traumatic	1	0	1

IV. DISEASES OF THE NOSE AND THROAT.

Adenoids	0	229	0
Adenoids and tonsils	0	798	0
Angioma of nose	0	1	0
Angio-sarcoma of septum	0	1	0
Bronchial cleft (patent)	0	0	1
Carcinoma of œsophagus	0	1	0
Cyst of the epiglottis	0	1	0
Deviated septum	0	100	0
cum hypertrophy of middle turbinates	0	2	0
hypertrophy of middle turbinates et polypi	0	1	0
external deformity	0	16	0
Epithelioma of œsophagus	0	1	0
Epistaxis	0	4	0
Faucial synechiæ	0	2	0
Fistula of œsophagus	0	1	0
Foreign body in œsophagus	0	2	0
Fracture of nose	0	1	0

	R.	B.	L.
Fracture of nose (old)	0	13	0
Hyperplastic middle turbinates	0	6	0
Laceration of anterior tip of septum	0	1	0
Laryngeal stenosis	0	2	0
Laryngeal stenosis (syphilitic)	0	2	0
Nasal polypi	0	7	1
Papilloma of larynx	0	2	0
Papilloma of larynx cum fracture of cricoid	0	1	0
Peritonsillar abscess	0	0	1
Rhinitis (atrophic)	0	2	0
Rhinitis (hyperplastic)	0	1	0
Sub-lingual abscess	0	1	0
Synechiæ of nose	4	0	1
Tonsillar abscess	0	0	1
Tonsillitis (follicular)	0	2	0
Tubercular laryngitis	0	1	0

V. DISEASES OF ACCESSORY SINUSES.

Diseases of frontal sinus:			
Frontal sinusitis (acuta)	4	1	4
cum facial erysipelas	2	0	0
Frontal sinusitis (chronica)	6	4	0
cum sequestrum et orbital fistula	1	0	0
Post-operative deformity of frontal bone	0	1	0
Diseases of antrum of Highmore:			
Acute	0	0	1
Foreign body (bullet)	0	0	1
Diseases of ethmoidal sinuses:			
Ethmoiditis (acuta)	2	1	1
Ethmoiditis (chronica)	4	9	1
cum nasal polypi	2	2	1
Mucocele of accessory sinuses et sphenoid	0	1	0
Sphenoiditis (chronica)	0	1	0

VI. MISCELLANEOUS.

Abscess of the scalp	0	1	0
Alveolar fistula of antrum	1	0	0
Carcinoma of orbit	0	0	1
Cerebellar tumor	0	1	0
Cervical adenitis	2	0	0
cum erysipelas	1	0	0

	R.	B.	L.
Dermoid cyst of orbit	1	0	0
Erysipelas	1	0	0
Facial cellulitis	1	0	0
Facial paralysis following mastoiditis	1	0	0
Fracture of base of skull cum rupture of membrana tympani,	1	0	0
Fracture of mastoid bone	1	0	0
Hæmangio-endothelioma of temporal bone	1	0	0
Measles	0	2	0
Nephritis (acute parenchymatous)	0	1	0
Neurasthenia	0	1	0
Orbital cellulitis	1	0	0
cum basilar meningitis	1	1	0
Otalgia dentalis	1	0	0
Periostitis of mastoid bone	1	0	0
Pneumonia (lobar)	0	2	0
Supra-orbital neuralgia	1	0	0
Syphilis	0	25	0
Diagnosis deferred	0	2	0

AURAL OPERATIONS.

Part. Disease. Operation.

1. Auricle.

	R.	B.	L.
Abcess of lobe incised	1	0	0
Cyst excised	1	0	2
Othæmatoma incised	4	0	1
Plastic	1	0	1
Papilloma excised	1	0	0
Plastic (lop ear)	1	0	3

2. Meatus.

Abscess incised	97	2	45
Circumscribed abscess incised	21	1	19
Foreign body removed	4	0	2
Plastic	2	0	0

3. Tympanum.

Drum membrane, paracentesis	416	162	356
Carious ossicles removed	3	1	3
Granulations in tympanum removed	2	0	0
Polyp removed	53	3	33
Carious ossicles removed and curettement of Eustachian tube,	0	4	0

4. Nose, Throat, and Pharynx.

Abscess septum incised	0	1	0
nose, spur removed	0	9	0
turbinate removed	0	41	0
turbinate and ethmoid cells curetted	0	2	0
polypus removed	0	40	0
Naso-pharynx, adenoids removed	0	210	0
adenoids and tonsils removed	0	717	0
Tonsils removed	0	79	0
Curettement of Eustachian tube	0	14	0
Submucous operations (spurs and septum)	0	169	0
Submucous operations (adenoids removed)	0	52	0

	R.	B.	L.
Polyp middle turbinate removed	0	2	0
Tumor removed	0	1	0
Synechia cut	0	3	0
Fracture of septum reduced	0	28	0
Foreign body removed (pharynx)	0	1	0
Furunculosis vestibule of nose incised	0	1	0
Osteoma sphenoid removed	0	1	0
Frontal sinus	9	0	2
Frontal sinus and antrum	0	1	1
Killian operation	6	0	4
Ethmoids curetted	0	15	0
Exenteration of ethmoids	0	4	0
Exenteration of sphenoid	0	1	0
Laryngoscopy	0	3	0
Peritonsillar abscess incised	0	24	0
Antrum opened	0	4	0
Exploration of œsophagus	0	3	0
Hæmatoma septum incised	0	1	0
Foreign body nose removed	0	1	0
Adhesion soft palate cut	0	3	0

5. Mastoid Region.

Abscess, post-aural, incised	8	0	3
Cervical abscess incised	4	0	3
Cervical glands incised	10	0	2
Mastoid operations (acute)	139	3	119
Mastoid operation with ligation of jugular	4	0	2
Mastoid operation with brain abscess	0	0	1
Mastoid operation with lumbar puncture	2	0	0
Radical mastoid operation	29	0	15
Skin graft	19	0	8

Miscellaneous Operations.

Ranula curetted	0	1	0
Tracheotomy	0	1	0
Intubation	0	1	0
Sub-lingual abscess incised	0	1	0
Tongue-tie freed	0	1	0
Lumbar puncture	0	4	0
Salvarcan	0	28	0
Various operations	11	15	5

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L.
Abscess	2	0	2
Abscess of lobe	3	0	4
Abscess of tragus	4	0	2
Pre-auricular abscess	1	0	2
Dermatitis	9	0	4
Eczema	62	29	40
Erysipelas	10	0	7
Intertrigo	5	0	6
Perichondritis	6	0	7
Impetigo	1	0	3
Lupus	1	0	1

b. *Deformities.*

Microtia	4	0	3
Microtia with atresia canal	1	0	0
Congenital fistula of auricle	0	0	1
Congenital lop ears	0	2	0

c. *Neoplasms.*

Cyst of auricle	3	0	4
Cyst of lobe	4	0	5
Epithelioma	5	0	4
Papilloma	1	0	0
Carcinoma	0	0	1
New growth with facial paralysis	1	0	0

d. *Trauma.*

Congelatio	7	1	3
Othæmatoma	9	0	11
Lacerated wound	5	0	6

2. Meatus.

	R.	B.	L.
Cerumen	509	662	543
Atresia	0	4	0
Abscess	10	0	3
Eczema	29	32	41
Exostosis	0	2	0
Acute diffuse inflammation	49	0	42
Acute diffuse inflammation with cervical adenitis	2	0	3
Acute diffuse inflammation with pre-auricular abscess	1	0	0
Chronic diffuse inflammation	19	0	12
Chronic diffuse inflammation with cellulitis of neck	0	0	1
Acute circumscribed inflammation	166	1	108
Foreign body (animate)	10	1	15
Foreign body (inanimate)	11	2	15
Ulceration	1	0	2
New growth	1	0	0

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	7	0	6
Trauma indirect	1	0	0
Myringitis	5	0	9

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	219	198	200
With adenoids	181	102	108

Chronic Secretory Catarrhal Inflammation.

Mucous	315	502	362
With adenoids	209	310	193
With facial paralysis	1	0	1
With labyrinthine disease	4	1	2

b. *Adhesive Catarrhal Inflammation.*

Secretory	40	18	42
Secretory with labyrinthine disease	4	2	3

c. *Acute Inflammation.*

	R.	B.	L.
Simple	402	309	275
With adenoids	96	30	62
mastoiditis	59	3	49
facial paralysis	3	0	2
post-aural abscess	5	0	6
mastoid abscess	1	0	0

d. *Acute Suppurative Inflammation.*

Simple	402	201	257
With cervical abscess	1	0	1
erysipelas	3	0	5
circumscribed abscess	1	0	2
mastoiditis	149	16	196
mastoiditis and meningitis	1	0	2
mastoiditis and facial paralysis	1	0	1
mastoiditis and congenital syphilis	0	0	1
mastoid fistula	2	0	1
post-aural abscess	29	0	32
facial paralysis	3	0	4
adenoids	110	47	49
facial paralysis and Bezold abscess	0	0	2

e. *Chronic Suppurative Inflammation.*

Simple	439	520	320
With atresia canal	1	0	1
mastoiditis	39	2	20
mastoiditis and meningitis	4	0	3
mastoiditis and labyrinthitis	1	0	0
mastoiditis and cervical adenitis	5	0	3
mastoiditis and post-aural sinus	1	0	2
torticollis	1	0	1
caries of the ossicles	16	0	17
facial paralysis	4	0	2
polypus in the tympanum	69	2	82
granulations in the tympanum	31	0	40
post-aural abscess	1	0	2
adenoids	201	99	79
Effect of suppurative inflammation	119	82	68
labyrinthine disease	1	0	1
facial paralysis	2	0	1
adenoids	40	3	42

IV. NEUROSIS OF THE MIDDLE EAR.

	R.	B.	L.
Otalgia from teeth	48	0	29
pharynx	1	0	2

V. DISEASES OF THE LABYRINTH.

Labyrinthitis	24	16	29
Anæmia	1	0	1
Concussion	2	0	3
Hemorrhage	5	0	4
Trauma	2	0	3

MISCELLANEOUS.

Adenoids and tonsils	0	396	0
Adenoids	0	196	0
Lingual tonsils	0	3	0
Tonsils	0	59	0
Hypertrophic rhinitis	0	62	0
Atrophic rhinitis	0	61	0
Purulent rhinitis	0	40	0
Vaso-motor rhinitis	0	7	0
Abscess (nose)	0	5	0
Peritonsillar abscess	0	29	0
Polyp (nose)	0	55	0
Spur (nose)	0	52	0
Foreign body (nose)	0	4	0
Deaf-mutism	0	16	0
Deflected septum	0	272	0
Deflected septum with external deformity	0	31	0
Frontal sinus (acute)	67	8	38
(chronic)	16	0	19
Frontal sinus and antrum (acute)	3	0	4
Frontal sinus (acute) with orbital abscess	2	0	3
Ethmoiditis	0	49	0
Ethmoiditis with polyp	0	9	0
Sphenoiditis	0	7	0
Acute pharyngitis	0	27	0
Chronic pharyngitis	0	16	0
Fracture nasal bones	0	10	0

	R.	B.	L.
Fracture antrum	0	0	1
Ethmoiditis and antrum	0	2	0
Ethmoiditis and goitre	0	2	0
Facial paralysis	5	0	6
Facial erysipelas	0	4	0
Papilloma larynx	0	2	0
Hæmatoma septum	0	2	0
Stenosis of glottis	0	1	0
Sarcoma (nose)	0	2	0
Cyst turbinate	0	2	0
Hypertrophy turbinate	0	97	0
Purpura hemorrhagica	0	1	0
Epulis	0	1	0
Fibro-cartilaginous tumor (post-aural)	0	0	1
Fracture of base, facial paralysis, hemorrhage, ankylosis of jaw,	0	1	0
Pemphigus lower lip and soft palate	0	2	0
Adenitis	0	48	0
Adenitis with sub-lingual abscess, Ludwig's angina	0	1	0
Collapse ala	0	1	0
Tongue-tie	0	2	0
Sub-periosteal abscess	0	2	0
Sub-lingual abscess	0	1	0
Abscess septum	0	3	0
Deformity (nose)	0	25	0
Lupus (nose)	0	1	0
Trauma	0	2	0
Epistaxis	0	39	0
Eczema (nose)	0	7	0
Fibroma (nose)	0	1	0
Specific nose and throat	0	27	0
Cleft palate	0	2	0
Bifid uvula	0	5	0
Ulceration septum	0	4	0
Ulceration tonsil	0	2	0
Specific pharynx	0	6	0
Syphilis	0	7	0
Foreign body œsophagus	0	4	0
Carcinoma œsophagus	0	1	0
Stricture of œsophagus	0	3	0
Specific laryngitis	0	4	0
Specific labyrinthitis	0	3	0
Retro-pharyngeal abscess	0	12	0
Cyst tonsil	1	0	2
Œdema uvula	0	4	0
Chronic tonsillitis	0	19	0

	R.	B.	L.
Leucoplakia	0	2	0
Post-diphtheritic paralysis	1	0	0
Chancre lip	0	2	0
Myocarditis, arterio-sclerosis	0	2	0
Salpingitis (Eustachian)	0	19	0
Adductor paralysis	1	0	0
Cyst epiglottis	0	1	0
Papilloma vocal cord	0	2	0
Ranula	0	2	0
Osteoma frontal sinus	0	0	1
Tumor larynx	0	2	0
New growth (nose)	0	1	0
Post-operative adhesions (throat)	0	1	0
New growth (frontal sinus)	0	0	1
Eloped	0	21	0
No diagnosis	0	40	0
No ear disease	0	89	0
Unfit patients	0	123	0

DONATIONS IN 1911–1912.

The Managers desire to acknowledge the receipt of the following donations in 1911–1912:—

One barrel of apples, from Dr. F. E. Cheney.
Two barrels of apples, from Mrs. Mary McKeown.
Children's clothing, from Mrs. H. B. Ryder.
Children's clothing, from the Channing Circle, Arlington Street Church.
Children's clothing, from the Jamaica Plain Branch of the Needlework Guild.
Magazines, from Dr. Farrar Cobb.
Books, from Miss Ida Ridgeway.
Art Exhibit tickets, from Dr. Myles Standish.
Art Exhibit tickets, from Dr. George A. Webster.
Knit bandages, from Mrs. R. N. Staigg.
Knit bandages, from Miss Ruth Peterson.
Picture cards for children, from Miss Vose, Kindergarten for the Blind.
Flowers, from Mr. Choate.
Flowers, from Dr. D. Harold Walker.
Flowers, from Rev. E. F. McLeod.
Flowers, from Mr. Mitchell A. Dearborn.
Flowers, from Boston Flower Mission.
Plant, from Mr. Henry Callis.
Plant, from Mrs. F. E. Fash.
Glasses and spectacles, from Dr. Francis P. Sprague.
Spectacles, from Mrs. J. Bradlee.
Glasses, from Mrs. Charles Almy.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr. Henry Parkman, Mr. William D. Sohier, Mr. William H. Seabury, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. C. P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. C. P. Curtis, Mr. John Lehan, Mr. Harvey Clap, Childs, Sleeper & Co., Marshall, Johnson & Co., Mr. L. B. Chandler.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

The Massachusetts Charitable Eye and Ear Infirmary is a special hospital with a capacity of two hundred and fifteen beds and a large out-patient department.

Graduates of any general hospital training school furnishing proper references will be admitted. The course covers a period of five months, three months of which consist of practical work in the wards, operating, sterilizing, dressing, and X-ray rooms.

During the last two months of the course the nurses will be given an opportunity to do Social Service Work under the direction of the Social Service Department and to take active part in much of the practical details in the hospital and outside.

Lectures will be given by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

To those desiring it, practical instruction in the details of Hospital Management will be given.

Nurses completing the course and passing a satisfactory examination will receive a diploma of the school. It is possible for a limited number of nurses after completing the regular course to arrange for a longer period of instruction in any one branch of the work. There is frequent opportunity for well-equipped nurses to obtain permanent salaried positions in some department of the institution or elsewhere. The remuneration for the entire course is $72. Living accommodations are in a new Nurses' Home, situated on the Charles River Parkway.

Application blanks and additional information furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary of Boston the sum of dollars, to be applied to the uses of said infirmary.

EIGHTY-EIGHTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1913

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the SUPERINTENDENT.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

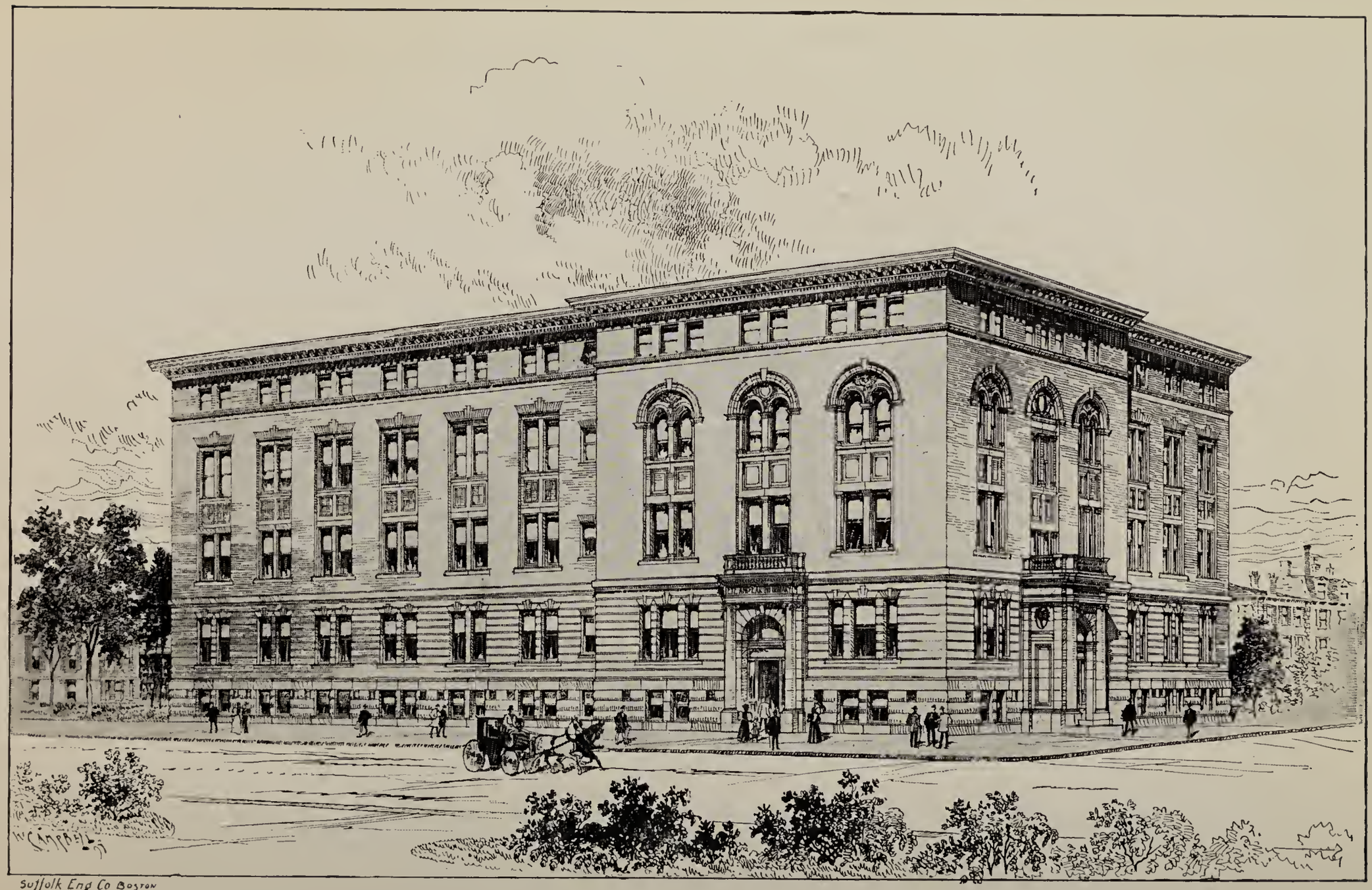
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy**, and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-EIGHTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1913

BOSTON
PRESS OF GEO. H. ELLIS CO.
1914

OFFICERS

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

BOARD OF MANAGERS, 1913-1914.

AUGUSTUS HEMENWAY.
Feb. 5, 1878.

GEORGE P. GARDNER.
Feb. 1, 1887.

HENRY PARKMAN.
May 2, 1893

*WILLIAM D. SOHIER.
Jan. 7, 1896.

ROBERT HOMANS.
May 1, 1900.

WILLIAM S. SPAULDING.
Feb. 4, 1902.

Dr. GEORGE B. SHATTUCK.
Oct. 30, 1902.

WILLIAM C. ENDICOTT.
Feb. 3, 1903.

RUSSELL G. FESSENDEN.
Feb. 3, 1903.

HERBERT M. SEARS.
Dec. 20, 1905.

CHARLES P. CURTIS.
Feb. 5, 1907.

ROBERT H. STEVENSON, Jr.
Feb. 5, 1907.

*JOHN LAWRENCE.
Feb. 5, 1907.

President.

Dr. GEORGE B. SHATTUCK.

Secretary.

ROBERT HOMANS, 1035 Exchange Building, 53 State Street, Boston.

Treasurer.

HENRY PARKMAN, 53 State Street, Boston.

Executive Committee.

GEORGE P. GARDNER. JOHN LAWRENCE. HERBERT M. SEARS.

Finance Committee.

WILLIAM S. SPAULDING. RUSSELL G. FESSENDEN. WILLIAM C. ENDICOTT.

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* Appointed by the Commonwealth.

Visiting Committees.

January,	Mr. HEMENWAY.	July,	Mr. PARKMAN.
February,	Mr. HEMENWAY.		Mr. STEVENSON.
	Dr. SHATTUCK.	August,	Mr. STEVENSON.
March,	Dr. SHATTUCK.		Mr. HOMANS.
	Mr. SPAULDING.	September,	Mr. HOMANS.
April,	Mr. SPAULDING.		Mr. CURTIS.
	Mr. FESSENDEN.	October,	Mr. CURTIS.
May,	Mr. FESSENDEN.		Mr. ENDICOTT.
	Mr. SEARS.	November,	Mr. ENDICOTT.
June,	Mr. SEARS.		Mr. GARDNER.
	Mr. PARKMAN.	December,	Mr. GARDNER.

SURGICAL BOARD.

Consulting Ophthalmic Surgeons.

HASKETT DERBY, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
H. BECKLES CHANDLER, M.D.
MYLES STANDISH, M.D.
EDWIN E. JACK, M.D.

Consulting Aural Surgeons.

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CLARENCE J. BLAKE, M.D.
EDWARD M. PLUMMER, M.D.

Ophthalmic Chiefs of Service.

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ALEXANDER QUACKENBOSS, M.D.

Aural Chiefs of Service.

FREDERICK L. JACK, M.D.
EUGENE A. CROCKETT, M.D.

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A. GARDNER MORSE, M.D.
ELWOOD T. EASTON, M.D.
FREDERICK H. VERHOEFF, M.D.

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PHILIP HAMMOND, M.D.
D. HAROLD WALKER, M.D.
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WILLIAM F. KNOWLES, M.D.

Assistant Ophthalmic Surgeons.

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LEON E. WHITE, M.D.
CALVIN B. FAUNCE, Jr., M.D.
FREDERICK L. BOGAN, M.D.

Ophthalmic Clinical Assistants.

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HENRY HAWKINS, M.D.
HENRY G. CARROLL, M.D.
EDWARD M. MURPHY, M.D.
WILLIAM LIEBMAN, M.D.
ROLAND C. MACKENZIE, M.D.
HAROLD B. CHANDLER, M.D.

Aural Clinical Assistants.

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DANA W. DRURY, M.D.
JOHN H. BLODGETT, M.D.
WILLIAM W. HENNESSEY, M.D.
JOHN L. LOUGEE, M.D.
D. CAMPBELL SMYTH, M.D.
OLIVER A. LOTHROP, M.D.
ROBERT J. KISSOCK, M.D.
FRANK CAMPBELL, M.D.

Pathologist.

FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.

GEORGE A. WATERMAN, M.D.

Consulting Surgeons.

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ROGER I. LEE, M.D.

Visiting Physicians to the Gardner Building.

FRITZ B. TALBOT, M.D. RICHARD M. SMITH, M.D.

Consulting Anæsthetist.

ARTHUR M. DODGE, M.D.

Roentgenologist.

WILLIAM LIEBMAN, M.D.

Refractionists.

ROLAND C. MACKENZIE, M.D. HAROLD B. CHANDLER, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.

CLIFFORD B. WALKER, M.D. ISAAC ALCUZAR, M.D.
CHARLES T. PORTER, M.D.

Aural House Surgeons.

HARRY P. CAHILL, M.D. RUFUS JACKSON, M.D.
FOUNTAINE B. MOORE, M.D.

EXECUTIVE OFFICERS.

Superintendent.

FARRAR COBB, M.D.

Matron and Superintendent of Nurses.

MARY COONAHAN.

Assistant to the Superintendent.

JOHN G. SCHROEDER.

Apothecary.

CHARLES E. NUTTER.

Assistant Matron.

HARRIET L. HARRIS.

Opticians.

ANDREW J. LLOYD COMPANY.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear. It is the second oldest hospital in New England. With its capacity of 215 beds for ward patients, its large out-patient clinic, its special building for the treatment of contagious ophthalmia, its pathological building, and its Nurses' Home, it is the largest hospital for diseases of the eye and ear in the world. Ever since it was started, it has attempted to give the best treatment to poor people, many of whom without its aid would have been unable to gain a livelihood.

At the outset of this report the Board of Managers desire to emphasize the great need of special contributions and gifts of money to meet the large deficit in the running expenses, feeling that the institution at the present time with its increased capacity for carrying on its great charitable work, should be more than ever before an object of interest to people of the State and City. The needs of the Infirmary, as well as the possibilities for good from money contributed, will be explained more in detail later in this report. The Infirmary has, at frequent intervals in the last fifty years, been compelled to spend large sums of money in increasing the number and size of its buildings to answer the demands made upon it by the wage-earning class.

In 1899 the new hospital buildings on the corner of Charles and Fruit Streets, with a capacity of 160 beds at a cost of over three hundred and thirty thousand dollars, were completed. At that time it seemed that ample accommodation for the proper treatment of patients for many years had been provided, but not more than five years had gone by before the capacity of the new buildings was insufficient to take care of the increasing number of deserving cases needing treatment in the wards. Accordingly, in 1909 the capacity of the hospital was increased nearly one-third, or by 50 beds, by the building of a nurses' home to house nurses and domestic servants at the corner of Charles and Cambridge Streets on the new boulevard, and changing the servants' and nurses' quarters in the hospital building into several new wards. At the same time a new pathological laboratory building was constructed, this being necessary because of the need of adequate quarters to carry on the scientific and research work of the institution. The cost of these additions to secure more room for patients in the year 1909 was $131,041.13. No part of this money was given by the State or City. Since this enlargement so much more work has been done by the institution that the Board of Managers are compelled to give serious consideration to the necessity for future enlargement, and are convinced that within another five years at least they must consider the question of limiting the work of the institution to the capacity of the present buildings, or building newer and larger buildings on another site.

In the last year the total number of patients admitted to the wards was 3,652, of which number 1,752 were children under fourteen years of age. The daily average number of patients in the wards of the hospital was 166. The total number of days' board furnished was 60,395. Of this 46,405 days were for free patients. The largest number of ward patients in one day was 201, the smallest 113. The number of new patients applying for treatment in the Out-patient

Department was 30,012. The total number of patients, new and old, in the Out-patient Department was 58,062. Of the 30,012 new out-patients, 17,118 were residents of the State of Massachusetts, outside of Boston, and 298 came from other States. Of the 3,652 patients treated as inmates in the wards, 2,372 were citizens of Massachusetts cities and towns outside of Boston. 1,161 were residents of Boston.

It may be seen from the list of occupations that the patients applying for treatment, as given in the detailed report of the Superintendent, were artisans, mechanics, clerks, and others of the wage-earning class who were unable to pay a fee for professional services. During the year 527 were refused treatment, being cases considered unfit for a charitable institution.

The following tabulated statement in regard to the growth of the institution will be of interest, and these figures should be multiplied by three or four to show the total attendance, as many old patients, both out-patients and house patients, pass though its different departments more than once in a year.

The number of new patients treated in the wards and out-patient department in

1849 was . . .	2,002	1897 was . . .	21,594
1877 " . . .	9,087	1900 " . . .	28,427
1890 " . . .	15,289	1913 " . . .	33,664

The number of patients treated in the wards in

1900 was . . .	2,180	1913 was . . .	3,652

GARDNER BUILDING.

(A DETACHED BUILDING FOR THE TREATMENT OF CONTAGIOUS OPHTHALMIA, MOST OF THE PATIENTS INFANTS AND CHILDREN.)

The Board of Managers feel that they cannot too often or too emphatically call attention in each annual report to the greatest work of the Infirmary; that is, the care of cases of contagious ophthalmia in a special building given by Mr. George A. Gardner for the treatment of contagious diseases of the eye. This work is of the utmost value sociologically. It annually saves the community a large amount of money in the prevention of blindness. This Gardner Building is the largest and most important special building for this work of any known institution. It is a detached structure, three stories high, with a capacity of 40 beds and isolating facilities. It costs annually to maintain this building over eighteen thousand dollars. In the past year 278 cases of contagious eye disease were treated, of whom 115 were infants under one and one-half years of age. A detailed report of this special work will be found in the report of the Superintendent. It is sufficient to say of the contagious ophthalmia in infants that no eyes were lost after admission. One of the most important parts of the work of the Social Service Department, to which department attention will be called later, has been in the following up of cases of contagious ophthalmia, especially of infants after they were discharged from the institution, and in investigating the circumstances of these unfortunate children, thus co-operating in enforcing the law in regard to reporting cases of contagious ophthalmia. During the last six years the Social Service Department has been in close touch, during the stay in the hospital and after leaving the hospital, with 646 cases of contagious ophthalmia in infants.

It is impossible to exaggerate the importance of the work

done in the Gardner Building. It is the most difficult, dangerous, and expensive part of the hospital work. The Board of Managers earnestly desire to raise a special endowment fund for this branch of the work of the hospital.

SOCIAL SERVICE DEPARTMENT.

Six years ago, with the assistance of a few devoted friends especially interested in sociological work and the prevention of blindness, the organization of the Social Service Department was made possible.

Two years ago the Board of Managers, feeling that the Department should form a definite part of the hospital policy, voted to assume the entire financial responsibility of the department and to conduct the same as a definite part of the hospital business. In taking over the entire cost of the department, an additional expense of $5,000 annually has been incurred, and there is still need of more workers in the department.

The Managers most earnestly appeal for contributions for maintaining this welfare work, and especially desire large gifts and bequests for the establishment of a special endowment fund.

A separate report of the Social Service Department will be mailed with this published report of the Managers, and we feel that it must impress all who read it with the great necessity for and the great possibilities in such work.

MAINTENANCE.

In the coming year much more money to pay the running expenses of the hospital must be raised by special contributions and gifts than in the previous years, because of the increased work in all departments of the Infirmary, the increased cost of food and other supplies, the necessity of paying largely increased wages to employees and nurses, the neces-

sary demands of the modern scientific laboratory work, X-ray plant, and refraction rooms. With the perfection of scientific methods the cost to hospitals of properly investigating and diagnosing disease and treating the same is over 25% more than ten years ago.

Since the new buildings were completed in 1899, the Infirmary has had to meet each year a deficit in the expense account of from two to twenty thousand dollars, with the exception of the year 1911. In 1912 the deficit was $5,533.07, in 1913 the deficit was $14,250.92.

The total cost of maintenance of the hospital proper Out-patient Department, Gardner Building for contagious diseases, Pathological Laboratory, X-ray Department, and Nurses' Home was $115,698.10.

The cost per week, per house patient, was $13.30.

The cost of subsistence, per inmate, per day was 21 cents.

Last year a special appeal for financial aid was made in circular letters descriptive of the Infirmary and its needs. Only $1,110 was received in this way. The names of the contributors are published at the end of this report. The Managers are again compelled to appeal to the public and make a special plea for contributions. The ever-increasing work in all the departments of the Infirmary, both because of the large number of patients cared for and the expense of providing modern facilities for the professional care of patients, will call for more money each year. The Board of Managers make a special plea for an endowment fund for the Social Service work and for maintaining the work on contagious ophthalmia.

During the year the reorganization of the Surgical Staff was carried out, and at the present time the Managers feel that the purpose of the reorganization—namely, the increased efficiency of the work of the Staff in its care of patients—has been maintained.

The Managers regret to state that after many years of

NURSES' HOME.

OPENED AUGUST 5, 1909.

useful activity Mr. William H. Seabury has resigned as one of the Managers.

The Managers regret the resignations, during the past year, of Dr. Edwin E. Jack, Ophthalmic Surgeon; Dr. Robert G. Loring, Assistant Ophthalmic Surgeon; and Dr. George A. Webster, Assistant Aural Surgeon.

The Managers desire to acknowledge with thanks the following legacies and gifts which were received during the year. Of these a portion has been devoted to the Social Service Work.

Legacy Nancy E. Rust estate, $480; Mr. Shepherd Brooks, $5,000; Mr. Herbert E. Fales, $10; H. D. Chapin, $10; Hotel Bellevue, $3; Mrs. William C. Loring, $10; Susan H. Bradley, $5; Elizabeth S. Warren, $100; Miss F. B. Brewer, $5; Helen R. Blackmer, $5; Holtzer-Cabot Electric Company, $25; Mrs. Joseph Lee, $10; Elizabeth B. Brown, $10; T. J. Coolidge, $100; Mrs. F. R. Bangs, $25; Mrs. Percival H. Lombard, $25; Mr. Edward W. Grew, $20; Carter's Ink Company, $10; Miss R. L. Dexter, $15; Mr. George Wigglesworth, $20; Mrs. Pauline Shaw Fenno, $50; Mrs. Jere. Abbott, $5; Mrs. Charles P. Curtis, $100; Eleanor Floyd, $5; Miss E. S. Bacon, $10; Mrs. Alex. Cochrane, $5; Mrs. Thornton K. Lothrop, $25; Jane N. Grew, $20; Mr. Arthur T. Lyman, $100; Mr. William Q. Wales, $2; E. D. Barbour, $10; "Cash," $100; F. S. Moseley, $50; R. G. Fessenden, $10; T. J. Coolidge, $100; Sarah F. Bremer, $25; Mrs. Allston Burr, $10; Dudley L. Pickman, $50; Brown, Durrell Company, $25.

AUGUSTUS HEMENWAY,
CHARLES P. CURTIS,
WILLIAM S. SPAULDING,
Committee of the Board of Managers.

REPORT OF THE TREASURER.

INCOME, RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1913.

INCOME.

RECEIPTS:

Income from investments		$26,931.96
Appropriation from the State		45,000.00
Income from trustees, will E. V. Ashton		1,700.00
Income from estate of Robert B. Brigham		1,000.00
Interest on bank deposits		584.18
Rebate on bank tax		115.92
Miscellaneous		.67
From Superintendent, as per his report:		
Board of patients	$11,345.58	
Out-patient visits	5,340.50	
Medicines	8,454.97	
Opticians' accounts	3,977.40	
Sundries	663.51	29,781.96
		$105,114.69
Excess of payments		14,402.81
		$119,517.50

EXPENDITURES:

Running expenses of hospital per account of Superintendent		$115,698.10
Additional expenses per account of Treasurer:		
Annual Report, printing and postage	$452.75	
Insurance (liability)	587.58	
Auditing and book-keeping	185.00	
Transfer to Social Service Work	2,500.06	
Sundries	94.01	3,819.40
		$119,517.50

SOCIAL SERVICE WORK.

RECEIPTS:

Income from Sears Fund	$960.00	
Gifts	1,110.00	
Transfer from Income Account	2,500.06	$4,570.06

EXPENDITURES:

Wages	$3,961.09	
Stationery, printing, etc.	200.01	
Street-car and railroad fares	142.27	
Postage stamps, new typewriter, and sundries	266.69	$4,570.06

INVESTMENTS.

No. of Shares.	RAILROAD STOCKS.	*Book Value.*
135	Atchison, Topeka & Santa Fé R.R. Preferred	$10,792.66
100	Chicago Junction Rys. & Union Stock Yards R.R. Preferred	11,907.50
25	Concord & Montreal R.R.	1,346.25
62	Chicago & Northwestern R.R.	7,981.25
17	Fitchburg R.R. Preferred (sold 128 shares during year)	1,679.13
20	Manchester & Lawrence R.R.	1,830.00
100	Manhattan Ry.	14,187.50
50	New York Central & Hudson River R.R.	5,881.25
15	Northern R.R.	1,215.00
100	Union Pacific R.R. Preferred	8,156.25
5	Vermont & Mass. R.R.	410.00
		$65,386.79

BANK SHARES.

30	Merchants National Bank of Boston	$4,087.50

REAL ESTATE SHARES.

10	Boston Real Estate Trust	$10,100.75
10	Boston Ground Rent Trust	1,000.00
5	Bannigan Building Trust	500.00
2	Devonshire Building Trust	200.00
5	Warren Chambers Trust	500.00
		$12,300.75

No. of Shares.	Miscellaneous Shares.	*Book Value.*
241	American Tel. & Tel. Co.	$29,691.62
100	American Sugar Refining Co. Preferred	11,680.75
250	Ballard Vale Mills Preferred	25,000.00
58	Mass. Electric Co. Preferred	5,000.00
100	West End St. Ry. Co. (dividend, $350, credited to Sears Fund),	7,518.70
		$78,891.07

Book Value.	Railroad Bonds.	*Par Value.*
$8,785.78	Atchison, Topeka & Santa Fé General Mortgage 4%	$7,500.00
	Atchison, Topeka & Santa Fé Adjustment 4%	4,000.00
3,545.40	Convertible 4%	4,000.00
1,000.00	Due June 1, 1955, 4%	1,000.00
9,925.00	Boston & Albany R.R. 4%	10,000.00
7,950.00	Burlington & Missouri River R.R. Neb. 6%	6,000.00
10,287.50	Chicago, Burlington & Quincy R.R. 4%	10,000.00
10,637.50	Chicago, Milwaukee & St. Paul R.R. 6%	10,000.00
24,900.00	Chicago Junction Rys. & Union Stock Yards 4%	25,000.00
3,000.00	Chicago Junction Rys. & Union Stock Yards 5%	3,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,400.00	Chesapeake & Ohio Ry. Co. 4½%	10,000.00
5,244.00	Cincinnati, Indianapolis, St. Louis & Chic. 6%	5,000.00
10,675.00	Fitchburg R.R. 4%	10,000.00
10,000.00	Iowa Falls and Sioux City R.R. 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield 5%	5,000.00
9,095.00	Kansas City, Memphis & Birmingham General Mortgage 4%	4,500.00
	Kansas City, Memphis & Birmingham Income 5%,	9,000.00
10,008.50	Kansas City & Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island R.R. 4%	25,000.00
13,776.70	New York Central & Hudson River 3½% (Michigan Central Collateral)	15,000.00
4,736.25	Northern Pacific-Great Northern 4% (C., B. & Q. Collateral)	10,000.00
9,450.00	Oregon Short Line R.R. 4%	10,000.00
13,482.65	Pennsylvania R.R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain R.R. 5%	10,000.00
$225,914.28		$239,000.00

Book Value.	Miscellaneous Bonds.	*Par Value.*
$4,712.50	American Agricultural Chemical Co. 5%	$5,000.00
19,271.53	American Tel. & Tel. Co. Coll. Trust 4%	21,000.00
4,792.80	American Tel. & Tel. Co. Conv. 4½%	4,800.00
8,000.00	Butte Electric & Power Co. 5%	8,000.00
9,550.00	California Gas & Electric Corp. 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
4,582.64	Edison Electric Co. of Los Angeles 5%	5,000.00
9,850.00	Georgia Ry. & Electric Co. 5%	10,000.00
	Illinois Steel Co. ($10,000 called during year)	
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
6,700.00	Mass. Hospital Life Ins. Co. (annuity in trust)	
4,930.00	Mass. Elec. Co.	5,000.00
5,100.00	Massachusetts, State of, 3%	5,000.00
15,000.00	N.E. Tel. & Tel. Co. 5%	15,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
3,000.00	Savannah Electric Co. 5%	3,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
9,800.00	Southern California Edison Co. 5%	10,000.00
10,150.00	Tacoma Ry. & Power Co. 5%	10,000.00
9,850.00	United Fruit Co. 6%	10,000.00
9,625.00	United States Steel Corp. 5%	10,000.00
4,975.00	United Electric Securities Co., 37th Series, 5%	5,000.00
$188,008.08		$183,800.00

CONDENSED TRIAL BALANCE, SEPT. 30, 1913.

Stocks and Bonds: Investments (book value)	$574,588.47
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Cash on hand and in Superintendent's hands	20,855.66
	$1,158,785.75

Liabilities.

Capital, including various funds, legacies, etc.	$1,158,785.75

We have examined the accounts of the Superintendent monthly and the account of the Treasurer for the year ending Sept. 30, 1913, and found the same correct.

Patterson, Teele & Dennis,
Certified Public Accountants.

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,652, which is 132 more than last year.

Of the 3,652 house patients, 2,074 were males and 1,578 were females.

Number of patients treated in ophthalmic wards . . .	1,756
Number of patients treated in aural wards	1,896

Of this number 278 were treated in the Gardner Building for contagious diseases. 115 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average of patients treated in this building was 20.

Of the total number of patients treated in the wards 1,752 were children under fourteen years of age.

The daily average number of patients treated in the wards was 166.

The largest number of house patients treated on any one day was 201; the smallest number, 113.

Number of free patients admitted	1,942
Paying patients at $1 per week	62
Paying patients at $2 per week	152
Paying patients at $3 per week	210
Paying patients at $4 per week	22
Paying patients at $5 per week	169
Paying patients at $6 per week	17
Paying patients at $7 per week	521
Paying patients at $10 per week	402
Patients remaining in wards Sept. 30, 1912	155

The apparently large number of patients paying $7 to $10 per week remained in the hospital only one or two days for minor operations.

The average stay per patient in the hospital under treatment was 15 days.

60,395 days' board was furnished to patients. 13,990 days' board was paid, and 46,405 free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,161	Rhode Island	5
Mass. (excepting Boston)	2,372	Other States	3
Maine	13	Other countries	11
New Hampshire	78		3,652
Vermont	9		

OCCUPATIONS OF HOUSE PATIENTS.

Males.—Ophthalmic.

Artist	1	Metal workers and moulders	24
Agent	1	Mill and factory employees	124
Bakers and cooks	9	Painters and glaziers	20
Barbers	3	Pedlers	11
Book-binders	2	Porters	2
Book-keepers	3	Policemen	2
Butchers	7	Pensioners	6
Blacksmiths	11	Plumbers and steam-fitters	7
Carpenters and wood-workers,	50	Physicians	2
Chauffeurs	4	Printers	6
Clerks	29	Railroad employees	12
Clergymen	2	Salesman	1
Coachmen and hostlers	10	Seamen and fishermen	12
Draughtsman	1	Shippers	4
Electricians	3	Shoemakers	8
Engineers	6	Soldiers	8
Farmers	21	Students	3
Firemen	4	Stone-cutters	28
Gardeners	5	Tailors	11
Guides	3	Teamsters	34
Janitors	9	Telephone operators	2
Laborers	147	Waiters	8
Laundrymen	3	Watchmen	3
Lawyer	1	Unclassified	44
Letter-carrier	1	Minors	298
Machinists	37		1,068
Masons	15		

MALES.—AURAL.

Agent	1	Policemen	2
Bakers and cooks	3	Painters	6
Barbers	3	Pedlers	2
Blacksmiths	4	Plumber	1
Chauffeur	1	Printers and compositors	6
Clerks	20	Railroad employees	13
Carpenters and wood-workers,	18	Salesmen	4
Coachmen	2	Seamen and fishermen	7
Engineers	5	Shippers	6
Electricians	7	Shoemakers	21
Farmers	3	Soldiers	2
Gardener	1	Stenographers	3
Janitors	1	Students	3
Laborers	81	Tailors	9
Lawyer	1	Teacher	1
Laundryman	1	Teamsters	4
Mill and factory employees	46	Waiters	9
Machinists	16	Unclassified	16
Masons	2	Minors	670
Metal workers and moulders	5		1,006

FEMALES.—OPHTHALMIC.

Book-keepers	4	Nurses	7
Clerks	7	Saleswomen	2
Cooks	3	Stenographer	1
Domestics	36	Telephone operator	1
Dressmakers and seamstresses,	12	Waitresses	4
Housewives	241	Minors	304
Lodging-house keepers	23		688
Mill and factory employees.	43		

FEMALES.—AURAL.

Agent	1	Saleswomen	5
Clerks	17	Stenographers	3
Cooks	5	Storekeeper	1
Domestics	28	Teacher	1
Dressmakers and seamstresses,	14	Telephone operators	5
Housewives	88	Waitresses	10
Lodging-house keepers	3	Minors	661
Mill and factory employees	32		890
Nurses	16		

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

385 were well.
2,952 were relieved.
85 were not relieved.
30 left against advice.
11 were not treated.
40 died.
17 were transferred to other hospitals for other diseases.
140 remaining in hospital Sept. 30, 1913.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 964 operations performed in the house, and 1,662 in the Out-patient Department.

In the Aural Departments there were 1,749 operations performed in the house, and 1,625 in the Out-patient Department.

OUT-PATIENT DEPARTMENT.

New patients treated:—		
Ophthalmic: Males	10,651	
Females	9,202	
		19,853
Aural: Males	5,393	
Females	4,766	
		10,159
Total		30,012
Old patients treated:—		
Ophthalmic	15,319	
Aural	12,731	
		28,050
Total visits to Out-patient Department		58,062

RESIDENCES OF OUT-PATIENTS.

Boston	12,596	Connecticut	12
Mass. (excepting Boston)	17,118	Other States	10
Maine	75	Canada	5
New Hampshire	112	Other countries	7
Vermont	54		30,012
Rhode Island	23		

OCCUPATIONS OF OUT-PATIENTS.

Actors	4	Milliners	102
Agents	141	Mill and factory employees	3,484
Barbers	202	Moulders	108
Bakers	153	Musicians	33
Blacksmiths	209	Nurses	137
Book-binders	202	Painters	484
Book-keepers	121	Pedlers	426
Butchers	118	Pensioners	83
Carpenters and wood-workers,	624	Photographers	10
Chauffeurs	47	Physicians	9
Clergymen	17	Plumbers	100
Clerks	1,219	Policemen and letter-carriers	185
Coachmen and hostlers	123	Porters	216
Compositors and printers	158	Railroad employees	320
Cooks	60	Soldiers	15
Domestics	619	Seamstresses	810
Draughtsmen	15	Shoemakers	916
Electricians	219	Stenographers	500
Engineers	208	Stone-cutters	165
Engravers	147	Storekeepers	139
Farmers	473	Students	220
Firemen	103	Tailors	790
Fishermen and seamen	186	Teachers	50
Hotel and lodging-house keepers	198	Teamsters	350
Housewives	4,588	Telephone and telegraph operators	281
Laborers	2,645	Waiters	170
Lawyers	9	Unclassified	893
Masons	103	Minors	5,410
Messengers	53		30,012
Machinists	642		

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 278 cases were treated in the special wards of the Gardner Building. Of these there were 123 cases of gonorrhœal ophthalmia, 11 occurring in adults, 11 in children, and 101 in infants soon after birth. There were 82 cases of purulent ophthalmia, non-gonorrhœal: 5 of these were in adults, 20 in children, and 57 in infants. At the time of entrance the cornea was involved in 31 cases of gonorrhœal ophthalmia, of which 12 were adults, 5 children, and 23 infants. The cornea became involved in but 7 after admission: 4 of these were adults, 2 children, and 2 infants.

2 cases of specific iritis without active secondary lesion of the disease were treated. There were also 3 cases of trachoma, 2 cases of acute conjunctivitis, 9 cases of phlyctenular keratitis, 14 cases of ulcerative keratitis, and 4 cases of interstitial keratitis.

40 cases were treated for measles, pertussis, erysipelas, and other diseases.

EXPENDITURES FOR 1913.

The total expenditure by the Superintendent has been $115,698.10, which is itemized as follows:—

Provisions		$21,917.51
Meat, fish, and poultry	$8,508.05	
Fruit and vegetables	1,869.65	
Bread and flour	1,068.22	
Milk	4,158.16	
Groceries	3,597.35	
Butter and eggs	2,716.08	
Wines, liquors, and alcohol		459.70
Water rates		2,195.22
Hospital	1,813.92	
Nurses' Home	381.30	
Soap and soap powder		530.78
Gas and electric lighting		1,497.36
Gas (hospital)	486.32	
Gas and electric lighting (Nurses' Home)	1,011.04	
Ice		1,201.16
Heat, electric lighting and power (Hospital Bldgs.)		9,585.48
Fuel		1,762.23
Kitchen	548.77	
Nurses' Home	1,213.46	
Medicines and drugs		5,103.93
Furniture and bedding		849.58
Stationery and printing		1,546.39
Salaries and wages		50,013.95
Officers (administration, nursing, pathological and X-ray departments and refractionists)	12,413.92	
Clerks (Superintendent's Office, Out-patient Department, and telephone)	3,178.29	
Engineers and watchman	1,707.98	
Carpenters and painters	1,540.00	
Ward masters, orderlies, porters, and laboratory man	8,596.75	
Apothecary assistants	883.50	
Elevator man	410.00	
Janitor (Nurses' Home)	540.00	

Head nurses, operating-room nurses, and etherizer,	$5,505.48	
Post-graduate nurses	864.00	
Special nurses	578.85	
Attendant nurses	4,853.20	
Housekeepers	740.15	
Kitchen and dining-room employees	2,622.47	
Laundresses	2,847.92	
General women and ward maids	2,230.72	
Seamstresses	500.72	
Optical and surgical instruments and instrument repairs		$1,361.72
Spectacles and eyeglasses furnished free to wards of the State of Massachusetts and very poor patients		517.35
Repairs, improvements, and new apparatus		5,529.98
X-ray apparatus	62.90	
Tents	57.25	
Sterilizer repairs	244.05	
Plumbing	242.49	
Laundry plant	189.58	
Steam plant	539.02	
Electric plant, lamps, fixtures, etc.	446.38	
Carpenter work	1,042.27	
Painting, glazing, and care of ward floors.	1,524.35	
Kitchen cooking apparatus	336.02	
Elevators and dumb waiters	132.60	
Furniture and bedding	325.17	
Locks, keys, hardware	180.95	
Roofing	23.97	
Grounds (hospital and Nurses' Home)	182.98	
House, ward, and surgical supplies		8,835.51
Kitchen and dining-rooms	101.63	
Linen-room	1,371.84	
Surgical supplies	4,536.60	
Bacteriological laboratory supplies	125.45	
Laundry and general supplies	1,671.77	
X-ray supplies	204.54	
Uniforms (doctors, nurses, orderlies and patients)	823.68	
Contingent and sundries		2,790.25
Sundries, nurses' library and training school	363.27	
Surgeons' library	211.30	
Postage and express	295.95	
Telephone	1,080.65	
Bacteriological laboratory	9.95	
Advertising (House officers and Post-graduate School)	97.48	
Wassermann tests	506.00	

Office	$125.65	
Expert's services, figuring on steam heating plant	100.00	

The value of stock on hand Oct. 1, 1913, was:—

House and surgical supplies	$6,100.00	
Drugs and medicines	2,710.78	
Provisions	469.77	$9,280.55

The value of stock on hand Oct. 1, 1913, was	9,280.55
The value of stock on hand Oct. 1, 1912, was	9,159.95
	$120.60

Deducting the difference in value of stock on hand Oct. 1, 1912, $120.60, and Oct. 1, 1913, gives the cost of maintenance per house patient per week as $13.30. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $21,917.51.

The daily average number of patients was 166; of officers and employees, including house and nursing staff, 122; or a total daily average of 288 persons. The number of weeks' board of all persons was 15,017, and the weekly cost per person for uncooked food supplies was $1.46, 21 cents per day.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 136 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, and Throat, Clinical Diseases, and Surgery of the same, Refraction, Aural and Ophthalmic Nursing and special nursing of Brain Abscess, the Ear in Art and History, the Hospital Formulary, Contagious Diseases, the Care of Infants, Teaching the Deaf and Blind, and the Nurse as a Social Worker. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, the preparation of infants' food, and in social service work.

The number of post-graduate and pupil nurses taking the course was 25. 18 graduates received the diploma of the school. 42 applications for the course were received during the year.

In addition to the regular special training, instructions in social service work and hospital management has been given. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head nurses, and practical experience given as substitutes. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

LIVING ROOM. NURSES' HOME.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1904, to Oct. 1, 1913, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-patients Aural.*	*Total.*
1904	1,546	1,269	23,953	8,782	35,550
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,343	8,213	34,472
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
1910	1,646	1,910	19,542	9,364	32,462
1911	1,700	1,749	20,408	9,467	33,324
1912	1,646	1,874	19,265	9,182	31,967
1913	1,756	1,896	19,853	10,159	33,664
Totals . .	16,104	16,196	214,362	91,582	338,244

A total of 338,244 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 1,014,732.

FARRAR COBB, M.D.,
Superintendent.

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—For ten years, as occasion offered, Parinaud's conjunctivitis has been investigated in this laboratory, and its cause sought for without success. The fact was established, however, in 1904 that this disease possesses a characteristic histology. It is gratifying to report, therefore, that its cause has recently, also, been discovered in this laboratory, and found to be a hitherto unknown micro-organism.

The investigation made in collaboration with Mr. Louis Bell, Ph.D., relating to the effect of ultra-violet light upon the eye, has been continued, and a number of important facts ascertained. The investigation of the therapeutic possibilities of ultra-violet light has shown that the powerful bactericidal properties of this light cannot successfully be utilized in the treatment of infected tissues, owing to its harmful action on the tissues themselves. In addition to these, other investigations are in progress and a number of unusual cases have been studied, among which the most notable was a case of tuberculosis of the pituitary body. A case similar to this has apparently never been recorded.

FREDERICK H. VERHOEFF, M.D.,
Pathologist.

Sept. 30, 1913.

INTERIOR PATHOLOGICAL LABORATORY.

SCIENTIFIC PAPERS PUBLISHED BY THE SURGICAL STAFF DURING THE YEAR 1913.

"The Control of Ophthalmia Neonatorum in Massachusetts, with Suggestions for the Improvement of Existing Conditions." By Dr. Frederick E. Cheney. *Boston Medical and Surgical Journal*, Jan. 23, 1913.

"Hemangioendothelioma of the Temporal Bone." By Dr. Frederick L. Jack. Pathological Report by Dr. Calvin B. Faunce, Jr. *Boston Medical and Surgical Journal*, Feb. 20, 1913.

"Aural Vertigo." By Dr. D. Harold Walker. *International Congress of Otology*, Boston, August, 1913.

"The Applied Anatomy of the Intra-nasal Surgery of the Ethmoidal Labyrinth." *The Laryngoscope*, September, 1913. "Transplantation of Cartilage for Deformity of the Auricle," and, in connection with Dr. E. M. Plummer, "A Report of Seven Heath Operations." *Transactions of the Otological Society for 1913.* By Dr. Harris P. Mosher.

"Brawny Scleritis." *The Ophthalmoscope*, 1913. "The Effect of Chronic Glaucoma on the Central Retinal Vessels." *Archives of Ophthalmology*, 1913. "Treatment of Acute Dacryocystitis." *Journal American Medical Association*, 1913. "Some Simple Attachments to Electric Hand Lamps." *Ophthalmic* Record, 1913. "A Further Note on the Sclerectome." *The Ophthalmoscope*, 1913. "The Experimental Production of Sclero-keratitis and Chronic Intraocular Tuberculosis." *Archives of Ophthalmology*, 1913. "Parinaud's Conjunctivitis: A Mycotic Disease due to a hitherto undescribed Filamentous Organism." *Archives of Ophthalmology*, 1913. By Dr. Frederick H. Verhoeff.

"Chronic Focal Suppuration of the Head, with General Symptoms, especially in Adults." *Boston Medical and Surgical Journal*, Jan. 16, 1913. "Atrophic Rhinitis with

Ozena: Its Etiology and Surgical Treatment." *Annals of Otology, Rhinology, and Laryngology*, June, 1913. "Temporosphenoidal Abscess with Meningeal Symptoms." *Journal of the American Medical Association*, Sept. 27, 1913. By Dr. Francis P. Emerson.

"Cataract" (Reference Handbook of the Medical Sciences). "Interstitial Keratitis of Luetic Origin." Transactions of the American Ophthalmological Society, 1913. By Dr. George S. Derby.

"Ophthalmometry, with Especial Regard to the Measurement of Lenticular Astigmia" (Pray Prize Essay). Proceedings of the New Hampshire Medical Society, Concord, N.H., May, 1913. By Dr. William Norwood Souter.

"A Suggestion for Improving the Training of Ophthalmologists." *Boston Medical and Surgical Journal*, April 17, 1913. "On So-called Binasal Hemianopsia in Brain Tumor" (A Criticism of the Views of Harvey Cushing). *Boston Medical and Surgical Journal*, June 12, 1913. "Physiologic Optics the Basis for Teaching Clinical Ophthalmology." *Journal American Medical Association*, Sept. 27, 1913, Part 2. "Wearing Glasses; Reasons for Wearing Glasses; Common Mistakes in the Way Glasses are worn; Suggestions for the Care of Glasses" (a pamphlet for circulation largely among the laity by the Council of Public Health, Committee on Conservation of Vision). American Medical Association. By Dr. Walter B. Lancaster.

"A New Antrum Knife." *Boston Medical and Surgical Journal*, Sept. 25, 1913. "Furunculosis of External Auditory Canal: The Use of Alcohol as a Valuable Aid in Treatment." *Boston Medical and Surgical Journal*, Oct. 30, 1913. By Dr. Oliver A. Lothrop.

REPORT OF THE X-RAY DEPARTMENT.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—The noteworthy increase in the amount of work done by the X-ray Department the past year very emphatically justifies the prediction of the last Report that with the more intimate acquaintance afforded the clinical departments a wider use would be made of the X-ray as an aid in diagnosis and treatment. Out of 125 cases of foreign-body injuries to the eye, a considerable proportion were saved from operative interference by the demonstration either of the absence of a foreign body or its presence outside the globe. A distinct advance has been made in the diagnosis of accessory sinus and, especially, mastoid conditions. In October, 1913, a lantern-slide demonstration of interesting cases seen at the Infirmary the current year was given at the suggestion of Dr. H. P. Mosher whose kindly interest in the work made it possible. Although the X-ray has already attained an indispensable place in the diagnosis and treatment of eye and ear conditions, almost daily experience affords us evidence that the tremendous possibilities of this wonderful force have been as yet very little drawn on. It is, therefore, the evident province and duty of the hospital X-ray department to develop these possibilities, properly aided by the clinical departments, hospital authorities, and also the lay public, who should indeed be interested, as they will reap the benefits that

will accrue from a wider and better application of this beneficent weapon against disease.

	+	—
Accessory sinuses:		
sinusitis		44
sarcoma	1	
osteoma	1	
Frontal sinus:		
sinusitis	56	8
absent	4	
bismuth paste in	1	
Ethmoids:		
sinusitis	39	
exostosis	1	
Fronto-ethmoiditis	28	
Antrum Highmore:		
sinusitis	37	
sinusitis with external fistula	1	
Teeth:		
impacted wisdom tooth	4	6
diseased molar projecting in antrum	4	
Pansinusitis	14	
Foreign body in septum	1	
Mastoid:		
mastoiditis	179	112
mastoiditis with post-aural	6	
cholesteotome	17	1
thrombosis lateral sinus	1	
Otitis externa diffusa	7	
Skull:		
sella turcica enlarged	3	4
Fractures:		
mastoid	2	3
frontal	3	
nasal	3	
septum	2	
parietal	1	
malar	1	1
condyle of lower jaw	1	
Osteomyelitis malar bone	2	

Specific periostitis frontal		2	1
Cerebral tumor			1
Œsophagus:			
foreign body			3
tumor			1
stenosis			1
Larynx:			
fracture of calcified thyroid cartilage		1	
foreign body		1	1
Adductor paralysis:			
due to pulmonary T. B. glands		1	
due to aortic aneurism		1	
Foreign body in eye			73
(negative X-ray)			2
Foreign body localized in eye	27		
in sclera	2		
in orbit	12		
in lids	1		
in temporal fossa	4		
present, but not localized	4	50	
Orbit:			
tumor		8	
cellulitis		6	
fracture		1	
Miscellaneous:			
calcified stylo-maxillary ligament		1	
cervical rib		1	
caries cervical vertebra			1
spina bifida			1
dislocation temporo-mandibular articulation (recurrent)		1	
pulmonary infarct		1	
unclassified		12	
		507	264
Total No. X-ray cases		771	
X-ray treatments		46	
Photographs		42	

WILLIAM LIEBMAN, M.D.,

Roentgenologist.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.

Conjunctivitis:	
acute	7
follicular	1
gonorrhœal:	
in adults	11
in children	11
in infants	101
phlyctenular	11
purulent:	
in adults	5
in children	20
in infants	57
trachomatous	49
with pannus	24
vernal	1
Cicatrix	1
Pterygium	12
Symblepharon	5
Total	316

Cornea.

Keratitis:	
acne rosacea	2
dendritic	4
interstitial	54
marginal	3
neuropathic	17
phlyctenular	87
simple	7
superficial	28
traumatic	9
tubercular	4
superficial punctate	4
serpiginous	8
ulcerative	64
with hypopyon	58
with perforation	3
Kerato-conus	2
Kerato-iritis	7
Kerato-scleritis	4
tubercular	7
Leucoma:	
adherent	2
inflamed	5
Staphyloma	9
Fistula	1
Total	389

Glaucoma.

Chronic	14
Absolute	24
Acute	19
Secondary	14
Simplex	13
Total	84

Globe and Orbit.

Abscess of orbit	2
Contracted orbit	6
Cyst of orbit	2
Disorganized globe	20
Exophthalmos	8
Hemorrhage of orbit	1
Panophthalmitis	7
Phthisis bulbi	5
Siderosis bulbi	2
Sympathetic ophthalmia	4

Tumors:	
gumma	1
sarcoma	2
fibroma	2
glioma	3
endothelioma	2
Total	67

Lids.

Dermatitis	4
Abscess	4
Chalazion	1
Cysts	3
dermoid	2
Ectropion	8
Entropion	5
Epithelioma	4
Ptosis	5
congenital	3
Trichiasis	5
Papilloma	2
Melanotic sarcoma	1
Angioma	1
Total	48

Injuries.

Burns:	
cornea	5
conjunctiva	3
conjunctiva and cornea	17
conjunctiva and lids	6
Laceration of lids	11
Non-penetrating:	
globe	1
with hyphæmia	16
Penetrating:	
cornea	4
with foreign body	10
with prolapse of iris	16
cornea and iris	4
with foreign body	7
cornea and lens	9
cornea, iris, and lens	37
with foreign body	34
with hemorrhage into vitreous	1
ciliary region	10
with foreign body	3
sclera	8
with foreign body	6
with prolapse of vitreous	1
rupture	8
Total	217

Iris, Choroid, and Ciliary Body.

Blocked pupil	19
Irido-cyclitis	7
Irido-dialysis	4
Iris bombé	1
Iritis:	
rheumatic	14
simple	32
syphilitic	26
traumatic	4
tubercular	1
Uveitis	6
Metastatic choroiditis	4
Total	118

Lachrymal Apparatus.

Abscess	1
Dacryo-cystitis:	
acute	11
chronic	44
Obstruction	4
Total	60

Lens.

Cataract:	
capsular	53
complicated	9
congenital	87
posterior polar	2
hypermature	7
immature	7
mature	167
pre-senile	5
traumatic	40

Dislocated lens:	
into anterior chamber . .	4
into posterior chamber .	4
Total	385

Muscle and Nerve Affections.

Herpes zoster ophthalmicus .	9
Nystagmus	1
Paralysis of sixth nerve . . .	4
Paralysis of third nerve . . .	2
Strabismus:	
convergent	49
divergent	17
vertical	2
Total	84

Optic Nerve.

Atrophy	4
Neuritis:	
optic	10
Total	14

Retina.

Chorio-retinitis	6
Separation of retina	14
Hemorrhagic retinitis	4
Total	24

Miscellaneous.

Hyalitis	1
Cystoid cicatrix	1
Foreign body in sclera	3
Epilepsy	2
Thrombosis cent. vein	1
Frontal sinus	1
Rhus toxicodendron	1
Total	10

Summary.

Conjunctiva	316
Cornea	389
Glaucoma	84
Globe and orbit	67
Injuries	217
Iris, choroid, and ciliary body,	118
Lachrymal apparatus	60
Lens	385
Lids	48
Muscle and nerve affections .	84
Optic nerve	14
Retina	24
Miscellaneous	10
Total	1,816

OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Ptergyium	8
Removal of powder	1
Stripping	13
Suturing	3
Symblepharon	3
Conjunctival flap	25
Total	53

Cornea.

Scraping	3
Removal of powder	1
Saemisch	16
Paracentesis	4
Total	24

Enucleations.

Disorganized globe	19
Glaucoma absolutum	12
Injury	29
Irido-cyclitis	4
Panophthalmitis	2
Phthisis bulbi	8
Staphyloma	5
Insertion glass ball	4
Tumor of globe	2
Total	85

Evisceration.

Simple	3
Insertion of glass ball	1
Total	4

Iris.

Iridectomy:	
anterior synechiæ	1
glaucoma	16
optical	18
preliminary	6
Iridotomy	14
Prolapsed iris abscised	14
Total	69

Lachrymal Apparatus.

Abscess evacuated	7
Curettage of sac	2
Extirpation of sac	48
Agnew's operation	2
Total	59

Lids.

Abscess evacuated	7
Ectropion	7
Entropion	3
Plastic	8
Ptosis:	
Hess	4
Pagenstecher	1
Tumor excised	7
Wound sutured	3
Extirpation of tarsis	18
Extirpation of cyst	2
Total	60

Muscles.

Advancement:	
external rectus	37
internal rectus	12
Tenotomy:	
external rectus	14
internal rectus	37
superior rectus	2
Total	102

ORBIT.

Abscess evacuated	2
Thiersch graft	5
Tumor excised	2
Total	9

SCLERA.

Sclerotomy	9
Sclerotomy with iridectomy	32
Excision scleral tubercle	1
Total	42

LENS.

Preliminary capsulotomy	14
Capsulotomy	84
Discission	110
Cataract extraction:	
linear	9
in capsule with iridectomy	1
simple	14
suction	7
with buttonhole of iris	6
with iridectomy	135
with Van Lint	20
Total	400

MISCELLANEOUS.

Removal of intra-ocular steel,	40
Salvarsan	5
Neo-salvarsan	11
Cystoid cicatrix operation	1
Total	57
Total number of operations	964

OUT-PATIENT OPERATIONS.

Abscess of lid	30
Abscess of brow	3
Agnew's incision	11
Chalazion	179
Conjunctiva sutured	3
Cut of lids sutured	14
Dacryo-cystitis	31
Entropion	1
Foreign body removed from conjunctiva	80
Foreign body removed from cornea	1,050
Foreign body removed from lid,	127
Hordeolum	60
Pterygium	73
Total	1,662

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Refraction.

Astigmatism	4,584
Hypermetropia	4,799
Myopia	853
Presbyopia	1,209
Emmetropia	87
Total	11,532

Lids.

Abscess of	32
Blepharitis:	
squamous	590
ulcerative	197
Dermatitis of	8
Eczema of	69
Ectropion of	24
cicatricial	29
senile	12
Œdema of	74
Entropion of	23
cicatricial	7
senile	7
congenital	1
Epicanthus	2
Hordeolum	112
external	198
internal	79
Lagophthalmos	7
Phthiriasis palpebrarum	9
Trichiasis	60
Total	1,540

Lachrymal Apparatus.

Dacryo-cystitis:	
acute	125
chronic	68
Epiphora	17
Mucocele	60
Occlusion of puncta	60
Stenosis of lachrymal duct	69
Total	399

Conjunctiva.

Conjunctivitis:	
acute	1,171
subacute	843
chronic	586
eczematous	18
follicular	238
gonorrhœal:	
adult	19
children	18
ophthalmia neonatorum	140
herpetic	4
Parinaud's	2
phlyctenular	285
trachomatous	96
with pannus	39
vernal	9
blephro-	64
Lymphoid hypertrophy of	13
Lymphangiectasis	3
Pterygium	164
Pinguecula	42
Symblepharon	19
Total	3,773

Cornea.

Conical cornea	6
Atheromatous ulcer	2
Keratitis	26

dendritic	14
ex acne rosacea	7
herpetic	2
interstitial	86
marginal	35
neuropathic	39
with hypopyon	1
phlyctenular	309
ulcerative	6
punctate	21
rodent ulcer	1
serpiginous	9
superficial	11
ulcerative	204
with hypopyon	83
with pannus	1
with perforation	5
Leucoma of	127
adherent	52
inflamed	43
Macula of	180
Nebula of	125
Staphyloma	17
Phlyctenular kerato-conjunctivitis	91
Kerato-iritis	26
Total	1,529

Sclera.

Episcleritis	52
Scleritis	27
Sclero-keratitis	26
Total	105

Lens.

Aphakia	36
Cataract:	
capsular	25
congenital	69
complicated	14
cortical:	
posterior	6
hypermature	19
immature	116
incipient	213
intermescent	1
mature	96
polar:	
anterior	7
posterior	3
pre-senile	3
senile	4
Total	612

Uveal Tract.

Iris:	
anirida	2
coloboma	14
hyperæmia	28
Iritis	141
gonorrhœal	5
rheumatic	64
syphilitic	53
Excluded pupil	33
Occluded pupil	18
Irido-cyclitis	33
Choroid:	
atrophy of	37
coloboma of	7
Choroiditis	52
central	28
diffuse	4
disseminated	1
high myopic	9
Chorio-retinitis	46
Uveitis	31
metastatic	8
syphilitic	4
Sympathetic inflammation	4
Total	622

Retina.

Amaurotic family idiocy	3
Arterio-sclerosis of retinal vessels	106
Obstruction of retinal artery	9
Obstruction of retinal vein	2
Œdema of	10

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

Retinitis	21
albuminuric	20
hemorrhagic	14
pigmentosa	14
proliferans	2
Separation of	47
Hemorrhage of	27
Total	275

VITREOUS.

Hemorrhage into	34
Opacities of	243
Muscæ volitantes	3
Webs of	8
Total	288

OPTIC NERVE.

Atrophy of	67
Choked disc	6
Neuro-retinitis	26
hemorrhagic	2
Optic neuritis	32
Retrobulbar neuritis	14
Toxic amblyopia	59
Total	206

GLAUCOMA.

Glaucoma	12
absolute	29
acute	25
chronic	11
congenital	2
secondary	16
simplex	20
subacute	10
Buphthalmos	5
Total	130

EYEBALL.

Anophthalmos	12
Disorganized globe	124
Exophthalmos	24
Panophthalmos	5
Microphthalmos	1
Total	166

ORBIT.

Abscess of	5
Cellulitis	5
Periostitis	2
hemorrhagic	1
Contracted orbit	3
Total	16

DISTURBANCES OF MOTILITY.

Nystagmus	83
Paralysis of:	
third nerve	28
fourth nerve	1
sixth nerve	42
seventh nerve	3
Esophoria	29
Exophoria	26
Strabismus:	
alternating convergent	31
convergence	375
divergence	93
Artificial mydriasis	71
Ptosis	22
congenital	7
Total	811

TUMORS.

Conjunctiva:	
cyst	10
granuloma	8
Intraocular:	
tumor	7
Lids:	
angioma	3
epithelioma	4
chalazion	487
granuloma	4
milium	6
papilloma	5
verruca	18
sebaceous cyst	13
xanthalasma	6
Orbit:	
sebaceous cyst	3
tumor	3
Total	577

Unclassified Conditions.	
Albinism	3
Brow abscess	4
Exophthalmic goitre	11
Facial paralysis	26
Frontal sinusitis	37
Hypo-pituitarism	1
Herpes zoster ophthalmicus	19
Internal hydrocephalus	1
Inflamed socket	3
Supra-orbital neuralgia	16
Total	121

Injuries.	
Conjunctiva:	
burn of	80
ecchymosis	209
foreign body in	93
hyperæmia	27
laceration	47
Total	456
Cornea:	
abrasion of	265
burn of	77
cut of	35
foreign body in	1,050
Total	1,427
Lids:	
burn of	79
cut of	42
ecchymosis of	98
emphysema	2
foreign body in	127
Total	348
Orbit:	
emphysema of	1
fracture of walls of	3
Total	4
Eyeball:	
contusion of	60
with hyphemia	44
irritation from foreign body	73
rupture of globe	5
Total	182
Perforating wound of cornea	80
Perforating wound of cornea and lens	33
Perforating wound of cornea and lens with prolapse of iris	15
Perforating wound of cornea with foreign body in lens,	5
Perforating wound of cornea with foreign body in vitreous	1
Perforating wound of cornea with foreign body anterior chamber	1
Total	135
Perforating wound of ciliary region	11
Perforating wound of sclera	17
Rupture of sclera	4
Total	32

Non-perforating Injuries.	
Traumatic cataract	70
Traumatic conjunctivitis	162
Traumatic dislocation of lens	16
Traumatic irido-dialysis	4
Traumatic irido-donesis	2
Traumatic iritis	37
Traumatic keratitis	65
Traumatic keratitis with ulceration	4
Traumatic keratitis with hypopyon	2
Traumatic rupture of choroid.	2
Total	364

Miscellaneous.	
Visions not refracted	175
Referred to other institutions,	374
Referred to aural department	246
Unfit patients	391
Total	1,186

SUMMARY.

Refraction	11,532
Lids	1,540
Lachrymal apparatus	399
Conjunctiva	3,773
Cornea	1,529
Sclera	105
Lens	612
Uveal tract	622
Retina	275
Vitreous	288
Optic nerve	206
Glaucoma	130
Eyeball	166
Orbit	16
Disturbances of motility	811
Tumors	577
Unclassified conditions	121
Injuries	2,948
Miscellaneous	1,186
Total	26,836

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF EXTERNAL EAR.

	R.	B.	L.
Epithelioma of auricle	0	0	1
Exostosis	2	0	2
Othæmatoma	0	1	1
Otitis externa furunculosa	6	3	9
cum erysipelas	1	0	1
Perichondritis	0	0	2
Foreign body in canal			1

II. DISEASES OF THE MIDDLE EAR.

a. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta	16	15	15
cum mastoiditis	100	10	100
mastoiditis (recurrent)	0	0	2
mastoiditis et cerebellar abscess	0	0	1
mastoiditis, lateral sinus thrombosis, et meningitis	1	0	0
mastoiditis et erysipelas	4	0	2
mastoiditis et extradural abscess	1	0	3
mastoiditis et facial paralysis	0	0	3
mastoiditis et brain abscess	1	0	0
mastoiditis, facial paralysis, suppurative labyrinthitis, et meningitis	0	0	1
mastoiditis et meningitis	2	0	2
mastoiditis et perisinus abscess	8	0	8
mastoiditis et post-aural abscess	14	0	11
mastoiditis, post-aural, perisinus, et extradural abscesses	0	0	1
mastoiditis et otitis externa circumscripta	5	0	4
mastoiditis et sinus thrombosis	5	0	2
otitis externa furunculosa	0	0	3
pre-auricular abscess	1	0	0
granulations and atresia of canal	1	0	0
pansinusitis	1	1	0

b. *Chronic Suppurative Inflammations.*

	R.	B.	L.
Otitis media suppurativa chronica,			
cum acute labyrinthitis et facial paralysis	0	0	1
carious ossicles	21	11	15
cholesteatoma et facial paralysis	0	0	1
chronic mastoiditis et cholesteatoma	5	0	1
facial paralysis	1	0	2
mastoiditis	42	5	40
mastoiditis et labyrinthitis	0	0	3
mastoiditis (recurrent)	12	0	15
mastoiditis et sinus thrombosis	0	0	2
mastoiditis, sinus thrombosis, et septicæmia	0	0	1
mastoiditis, sinus thrombosis, extradural abscess, lung abscess, et septicæmia	1	0	0
furuncle of canal	1	0	0
mastoiditis, facial paralysis, et extradural abscess	0	0	1
mastoiditis et facial paralysis	1	0	0
mastoiditis et meningitis	1	0	1
mastoiditis et perisinus abscess	2	0	1
mastoiditis, sinus thrombosis, et meningitis	0	0	1
mastoiditis, tempero-sphenoidal abscess, et meningitis	0	0	2
mastoiditis et extradural abscess	0	0	1
mastoiditis (Bezold), perisinus, extradural abscess,	1	0	0
mastoiditis et post-aural abscess	0	0	1
mastoiditis et cerebral abscess	0	0	1
mastoiditis (post-operative) et post-aural sinus	0	0	1
otitis externa furunculosa	1	0	1
mastoiditis et erysipelas	1	0	1

III. DISEASES OF THE INTERNAL EAR.

Labyrinthitis	1	3	1
Syphilitic	0	6	0
Otosclerosis	2	0	1

IV. DISEASES OF THE NOSE AND THROAT.

Adenoids	0	247	0
Adenoids and tonsils	0	885	0
Abscess of septum	0	2	0
Carcinoma of larynx	0	1	0
T. B. the epiglottis	0	1	0

	R.	B.	I
Deviated septum	0	50	0
cum hypertrophy of middle turbinates	0	5	0
hypertrophy of inferior turbinates	0	3	0
external deformity	0	16	0
adenoids	0	11	0
Epistaxis	0	4	0
Foreign body in œsophagus	0	1	0
Foreign body in larynx	0	1	0
Epithelioma of larynx	0	1	0
Hyperplastic inferior turbinates and adenoids	0	3	0
Fracture of nose (old)	0	2	0
Hyperplastic middle turbinates	0	4	0
Laceration of soft palate	0	1	0
Laryngeal stenosis	0	3	0
Laryngeal stenosis (syphilitic)	0	3	0
Nasal polypi	0	1	1
Nasal hemorrhage (post-operative)	1	0	0
Peritonsillar abscess	0	0	3
Synechiæ of nose	0	1	0
Tonsillitis (follicular)	0	1	0
Acute laryngitis	0	1	0
Tonsillar hemorrhage (post-operative)	0	0	1
Tonsillar hemorrhage (tubercular?)	0	1	0

V. DISEASES OF ACCESSORY SINUSES.

Pansinusitis	0	4	2
Frontal sinusitis (acuta)	3	2	5
Frontal sinusitis (chronica)	7	2	5
cum orbital abscess	1	0	1
Frontal mucocele	1	0	0
Sarcoma of frontal, ethmoid, maxillary antrum, and orbit	0	0	1
Disease of antrum of Highmore (chronic)	4	1	1
Chronic cum ethmoids	0	1	0
Acute	2	0	1
Foreign body (bullet)	0	0	1
Diseases of ethmoidal sinuses:			
Ethmoiditis (acuta)	0	0	2
Ethmoiditis (chronica)	3	4	2
Sphenoiditis (chronica)	0	1	0
Sarcoma of ethmoid	0	0	1

VI. MISCELLANEOUS.

	R.	B.	L.
Abscess of the scalp	0	1	0
Alveolar fistula of antrum	1	0	0
Ankylosis of jaw	0	1	0
Cardio-spasm	0	1	0
Cervical adenitis	3	1	1
Fracture of base of skull cum rupture of membrana tympani,	0	0	1
Orbital cellulitis	0	0	1
Syphilis	0	11	0
Parotid fistula (post-operative)	1	0	0
Post-aural adenitis	1	0	0
Foreign body in œsophagus	2	0	0

AURAL OPERATIONS.

Part. Disease. Operation.

1. Auricle.

	R.	B.	L.
Abscess of lobe incised	4	0	3
Cyst excised	1	0	3
Othæmatoma incised	1	0	0
Perichondritis incised	0	0	1
Hæmatoma incised	1	0	2

2. Meatus.

Abscess incised	70	0	57
Circumscribed abscess incised	29	1	19
Foreign body removed	0	0	1
Exostosis removed	2	0	2

3. Tympanum.

Drum membrane, paracentesis	577	182	463
Carious ossicles removed	15	2	13
Granulations in tympanum removed	2	0	1
Polyp removed	40	1	12

4. Nose, Throat, and Pharynx.

Abscess septum incised	0	4	0
nasal spur removed	0	4	0
turbinate removed	0	43	0
turbinate and ethmoid cells curetted	0	1	0
polypus removed	0	28	0
Naso-pharynx, adenoids removed	0	246	0
adenoids and tonsils removed	0	822	0
adenoids, tonsils and turbinate removed	0	7	0
adenoids and tonsils, cervical glands incised	0	6	0
Tonsils removed	0	29	0
Curettement of Eustachian tube	0	2	0
Submucous operations (spurs and septum)	0	115	0
Submucous operations (adenoids removed)	0	9	0
Submucous operations (turbinate removed)	0	16	0
Submucous operation (carious ossicles removed)	0	1	0

	R.	B.	L.
Papilloma snared	0	1	0
Polyp middle turbinate removed	0	1	0
Tumor removed	0	1	0
Synechia cut	0	1	0
Fracture of septum reduced	0	20	0
Furunculosis vestibule of nose incised	0	1	0
Frontal sinus	2	0	2
Frontal sinus and antrum	2	0	0
Killian operation	4	0	2
Exenteration of ethmoids	0	14	0
Exenteration of sphenoid	0	5	0
Laryngoscopy	0	6	0
Peritonsillar abscess incised	0	7	0
Antrum opened	0	7	0
Foreign body nose removed	0	2	0
Adhesions soft palate cut	0	2	0
Angiomatous growth middle turbinate removed	0	1	0

5. Mastoid Region.

Abscess, post-aural, incised	12	0	11
Cervical abscess incised	2	0	3
Cervical glands incised	3	0	3
Mastoid operations (acute)	133	2	118
Mastoid operation with ligation of jugular	5	0	5
Mastoid operation with brain abscess	2	0	2
Mastoid operation with lumbar puncture	1	0	0
Radical mastoid operation	38	0	25
Skin graft	26	1	9
Plastic	0	0	1

Miscellaneous Operations.

Tracheotomy	0	2	0
Tongue-tie freed (adenoids removed)	0	1	0
Lumbar puncture	0	1	0
Salvarsan	0	19	0
Pre-auricular abscess incised	4	0	1
Haynes' operation for meningitis	0	1	0
Exploratory incision orbits	0	1	0
Alæ incised	0	1	0
Uvula cut	0	1	0
Epiglottis excised	0	2	0
Various operations	7	0	9

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L.
Abscess	1	0	4
Abscess of lobe	2	0	3
Abscess of tragus	3	0	2
Pre-auricular abscess	1	0	3
Dermatitis	6	0	3
Eczema	49	19	32
Erysipelas	9	0	6
Intertrigo	4	0	6
Perichondritis	7	0	5
Impetigo	2	0	4
Lupus	1	0	1
Ulceration	2	0	1
Herpes	2	0	0

b. *Deformities.*

Microtia	6	0	5
Microtia with atresia canal	1	0	2
Congenital fistula of auricle	0	0	1
Congenital lop ears	0	3	0

c. *Neoplasms.*

Cyst of auricle	4	0	5
Cyst of lobe	3	0	6
Epithelioma	2	0	3
Papilloma	2	0	1
Carcinoma	1	0	1
Tumor	0	0	1
Noma	1	0	0

d. *Trauma.*

Congelatio	6	2	4
Othæmatoma	1	0	1
Lacerated wound	1	0	0
Hæmatoma	6	0	4

2. Meatus.

	R.	B.	L.
Cerumen	512	599	522
Atresia	0	3	0
Abscess	9	0	6
Eczema	19	21	37
Exostosis	7	0	4
Acute diffuse inflammation	40	0	29
Acute diffuse inflammation with cervical adenitis	1	0	2
Chronic diffuse inflammation	9	0	6
Acute circumscribed inflammation	172	2	128
Foreign body (animate)	12	2	17
Foreign body (inanimate)	14	3	19
Ulceration	1	0	1
New growth	0	0	1

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	8	0	11
Trauma indirect	2	0	4
Myringitis	3	0	6

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	211	185	198
With adenoids	172	117	110

Chronic Secretory Catarrhal Inflammation.

Mucous	312	497	356
With adenoids	217	410	298
With facial paralysis	1	0	0
With labyrinthine disease	3	0	2

b. *Adhesive Catarrhal Inflammation.*

Secretory	41	20	37
Secretory with labyrinthine disease	6	4	5

c. *Acute Inflammation.*

Simple	416	196	224
With adenoids	102	49	95
mastoiditis	65	2	39
facial paralysis	5	0	3
post-aural abscess	21	0	16
mastoid abscess	2	0	3

d. *Acute Suppurative Inflammation.*

	R.	B.	L.
Simple	411	220	261
With cervical abscess	3	0	5
erysipelas	6	0	2
circumscribed abscess	11	0	10
mastoiditis	138	16	185
mastoiditis and meningitis	1	0	1
mastoiditis and facial paralysis	1	0	2
mastoid fistula	2	0	1
post-aural abscess	39	0	42
facial paralysis	4	0	6
adenoids	101	35	60
facial paralysis and Bezold abscess	1	0	1
labyrinthine disease	1	0	1
sub-periosteal abscess	4	0	3
carious ossicles and tuberculosis	0	0	1

e. *Chronic Suppurative Inflammation.*

Simple	437	421	310
With atresia canal	1	0	2
mastoiditis	29	2	42
mastoiditis and meningitis	1	0	1
mastoiditis and labyrinthitis	0	0	1
mastoiditis and cervical adenitis	4	0	2
mastoiditis and post-aural sinus	1	0	1
torticollis	2	0	3
caries of the ossicles	15	0	14
facial paralysis	5	0	3
polypus in the tympanum	51	1	62
granulations in the tympanum	29	0	36
post-aural abscess	3	0	1
adenoids	198	79	112
Effect of suppurative inflammation	101	72	61
labyrinthine disease	7	0	8
facial paralysis	1	0	0
adenoids	51	15	62
trauma	0	0	1

IV. NEUROSIS OF THE MIDDLE EAR.

Otalgia from teeth	51	0	31
pharynx	2	0	3

V. DISEASES OF THE LABYRINTH.

	R.	B.	L.
Labyrinthitis	22	10	17
Anæmia	3	0	2
Concussion	7	0	6
Hemorrhage	2	0	3
Trauma	2	0	2

MISCELLANEOUS.

Adenoids and tonsils	0	1002	0
Adenoids	0	302	0
Lingual tonsils	0	2	0
Tonsils	0	102	0
Hypertrophic rhinitis	0	69	0
Atrophic rhinitis	0	58	0
Purulent rhinitis	0	52	0
Vaso-motor rhinitis	0	9	0
Abscess (nose)	0	6	0
Peritonsillar abscess	0	23	0
Polyp (nose)	0	38	0
Spur (nose)	0	49	0
Foreign body (nose)	0	2	0
Deaf-mutism	0	10	0
Deflected septum	0	291	0
Deflected septum with external deformity	0	42	0
Frontal sinus (acute)	59	6	42
(chronic)	19	0	17
Frontal sinus and antrum (acute)	2	0	6
Frontal sinus (acute) with orbital abscess	1	0	2
Ethmoiditis	0	52	0
Ethmoiditis with polyp	0	12	0
Sphenoiditis	0	5	0
Acute pharyngitis	0	31	0
Chronic pharyngitis	0	8	0
Fracture nasal bones	0	7	0
Deflected septum with polyp and ethmoiditis	0	1	0
Exostosis of hard palate	0	1	0
Sarcoma of frontal sinus	1	0	1
Herpes mastoid region	1	0	0
Malignant growth antrum	0	0	1
Ethmoiditis and antrum	0	3	0
Facial paralysis	6	0	9

	R.	B.	L.
Facial erysipelas	0	8	0
Papilloma larynx	0	3	0
Hæmatoma septum	0	3	0
Stenosis of glottis	0	1	0
Sarcoma (nose)	0	1	0
Cyst turbinate	0	3	0
Hypertrophy turbinate	0	121	0
Fracture of base, facial paralysis, hemorrhage, ankylosis of jaw,	0	1	0
Adenitis	27	0	35
Adenitis with sub-lingual abscess, Ludwig's angina	0	2	0
Collapse ala	0	1	0
Tongue-tie	0	2	0
Sub-periosteal abscess	0	4	0
Abscess septum	0	7	0
Deformity (nose)	0	39	0
Lupus (nose)	0	2	0
Trauma	0	4	0
Epistaxis	0	62	0
Eczema (nose)	0	8	0
Specific nose and throat	0	19	0
Cleft palate	0	3	0
Bifid uvula	0	6	0
Ulceration septum	0	5	0
Ulceration tonsil	0	3	0
Specific pharynx	0	4	0
Syphilis	0	19	0
Foreign body œsophagus	0	6	0
Carcinoma œsophagus	0	2	0
Stricture of œsophagus	0	6	0
Specific laryngitis	0	7	0
Specific labyrinthitis	0	2	0
Retro-pharyngeal abscess	0	14	0
Cyst tonsil	2	0	1
Œdema uvula	0	6	0
Chronic tonsillitis	0	27	0
Gangrenous soft palate	0	1	0
Post-auricular fissure	0	0	1
New growth palate	0	1	0
Verruca septum	0	1	0
Tumor nose	0	2	0
Fistula neck	0	0	1
Leucoplakia	0	2	0
Post-diphtheritic paralysis	1	0	2
Myocarditis, arterio-sclerosis	0	3	0
Salpingitis (Eustachian)	0	23	0

	R.	B.	L.
Cyst epiglottis	0	1	0
Tumor larynx	0	1	1
Papilloma vocal cord	0	2	0
New growth (nose)	0	1	0
Post-operative adhesions (throat)	0	2	0
Rhino-scleroma	0	1	0
Bony growth neck	0	1	0
New growth pharynx	0	1	0
Foreign body larynx	0	1	0
Fracture base of skull	0	1	0
Eloped	0	61	0
No diagnosis	0	69	0
Diagnosis deferred	0	20	0
No ear disease	0	92	0
Unfit patients	0	136	0

DONATIONS IN 1913.

The Managers desire to acknowledge the receipt of the following donations in 1913:—

Fifty dollars to be used for glasses for poor persons, from Mrs. C. P. Curtis.

Forty pounds of salmon, from Mr. C. P. Curtis.

Victrola records, from Mr. Herbert M. Sears.

Barrel of apples, from Dr. Frederick E. Cheney.

Magazines, from Dr. Farrar Cobb.

Magazines, from Mr. Herbert M. Sears.

Magazines, from Mr. John Lynch.

Books for Nurses' Library, from Miss Ida E. Ridgeway.

Books and toys, from Pierce School, Attleboro, Mass.

Twelve large calendars, from New England Coal and Coke Company.

Picture postal cards, from Mrs. Lombard.

Children's clothing, from the Jamaica Plain Branch of the Needlework Guild.

Knit bandages, from Mrs. George B. King.

Knit bandages, from Miss Brenda Mattice.

Knit bandages, Anonymous.

Flowers, from Boston Flower Mission.

One dollar, from Mrs. H. Pruss.

Ten dollars, for the children's and patients' Christmas tree, from Mr. Frank A. Day.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr. Henry Parkman, Mr. William D. Sohier, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. C. P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. C. P. Curtis, Mr. Harvey Clap.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

The Massachusetts Charitable Eye and Ear Infirmary is a special hospital with a capacity of two hundred and fifteen beds and a large out-patient department.

Graduates of any general hospital training school furnishing proper references will be admitted. The course covers a period of five months, three months of which consist of practical work in the wards, operating, sterilizing, dressing, and X-ray rooms.

During the last two months of the course the nurses will be given an opportunity to do Social Service Work under the direction of the Social Service Department and to take active part in much of the practical details in the hospital and outside.

Lectures will be given by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

To those desiring it, practical instruction in the details of Hospital Management will be given.

Nurses completing the course and passing a satisfactory examination will receive a diploma of the school. It is possible for a limited number of nurses after completing the regular course to arrange for a longer period of instruction in any one branch of the work. There is frequent opportunity for well-equipped nurses to obtain permanent salaried positions in some department of the institution or elsewhere. The remuneration for the entire course is $72. Living accommodations are in a new Nurses' Home, situated on the Charles River Parkway.

Application blanks and additional information furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary of Boston the sum of dollars, to be applied to the uses of said infirmary.

Clara W. Butler

EIGHTY-NINTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1914

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE

Massachusetts Charitable Eye and Ear Infirmary,

233 Charles Street, cor. Fruit Street, Boston.

OUT-PATIENT DEPARTMENT.

The Out-patient Department and Dispensary is open *daily*, except Sundays and legal holidays, from 9 to 10.30 A.M., for the examination and treatment of all **poor persons** affected with disease of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express, or messenger. Out-patients will be charged 10 cents for each visit.

HOSPITAL.

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A.M. and 2 and 3 P.M. ON WEEK-DAYS ONLY.

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the SUPERINTENDENT.

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than $10 per week may be accepted in such cases as shall be considered proper.

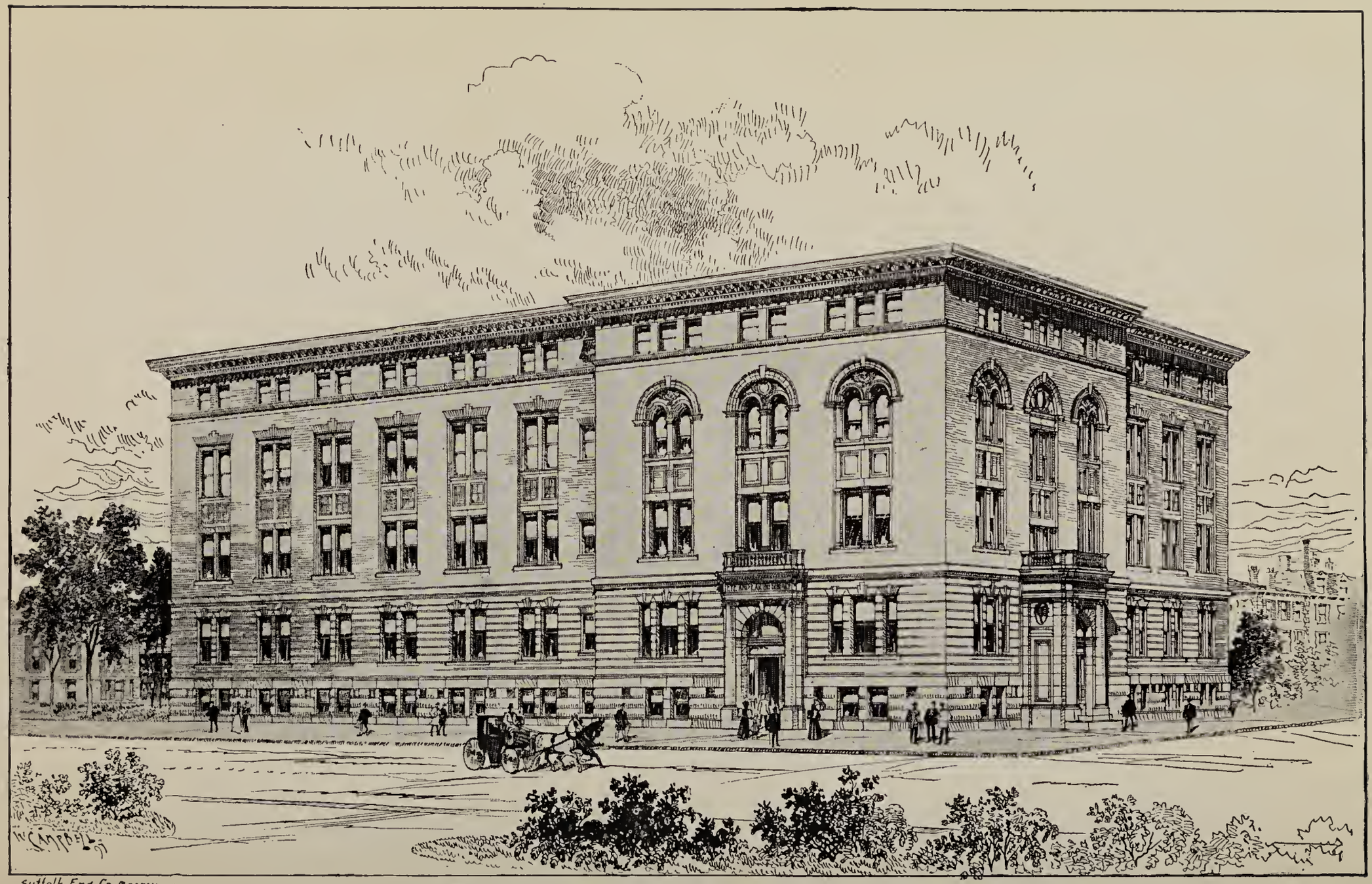
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients on Tuesdays, Thursdays, Saturdays, and Sundays, from 2 to 3 P.M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy**, and *under no circumstances* for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899.

EIGHTY-NINTH ANNUAL REPORT

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY

FOR THE YEAR

1914

BOSTON
PRESS OF GEO. H. ELLIS CO.
1915

OFFICERS

OF THE

MASSACHUSETTS CHARITABLE

EYE AND EAR INFIRMARY.

BOARD OF MANAGERS, 1914-1915.

GEORGE P. GARDNER.
Feb. 1, 1887.

HENRY PARKMAN.
May 2, 1893.

*WILLIAM D. SOHIER.
Jan. 7, 1896.

ROBERT HOMANS.
May 1, 1900.

WILLIAM S. SPAULDING.
Feb. 4, 1902.

DR. GEORGE B. SHATTUCK.
Oct. 30, 1902.

WILLIAM C. ENDICOTT.
Feb. 3, 1903.

RUSSELL G. FESSENDEN.
Feb. 3, 1903.

HERBERT M. SEARS.
Dec. 20, 1905.

CHARLES P. CURTIS.
Feb. 5, 1907.

ROBERT H. STEVENSON, JR.
Feb. 5, 1907.

*JOHN LAWRENCE.
Feb. 5, 1907.

JAMES DEAN.
June 12, 1914.

JAMES C. HOWE.
June 12, 1914.

President.

DR. GEORGE B. SHATTUCK.

Secretary.

ROBERT HOMANS, 1035 EXCHANGE BUILDING, 53 STATE STREET, BOSTON.

Treasurer.

HENRY PARKMAN, 53 STATE STREET, BOSTON.

Executive Committee.

GEORGE P. GARDNER. JOHN LAWRENCE. HERBERT M. SEARS.

Finance Committee.

WILLIAM S. SPAULDING. RUSSELL G. FESSENDEN. WILLIAM C. ENDICOTT.

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* Appointed by the Commonwealth.

Visiting Committees.

January,	Mr. HOWE.	July,	Mr. PARKMAN.
	Mr. SEARS.		Mr. STEVENSON.
February,	Mr. SEARS.	August,	Mr. STEVENSON.
	Dr. SHATTUCK.		Mr. HOMANS.
March,	Dr. SHATTUCK.	September,	Mr. HOMANS.
	Mr. SPAULDING.		Mr. CURTIS.
April,	Mr. SPAULDING.	October,	Mr. CURTIS.
	Mr. FESSENDEN.		Mr. ENDICOTT.
May,	Mr. FESSENDEN.	November,	Mr. ENDICOTT.
	Mr. DEAN.		Mr. GARDNER.
June,	Mr. DEAN.	December,	Mr. GARDNER.
	Mr. PARKMAN.		Mr. HOWE.

SURGICAL BOARD.

Consulting Ophthalmic Surgeons.

H. BECKLES CHANDLER, M.D.
MYLES STANDISH, M.D.
HENRY W. BRADFORD, M.D.
B. JOY JEFFRIES, M.D.
EDWIN E. JACK, M.D.

Consulting Aural Surgeons.

J. ORNE GREEN, M.D.
CLARENCE J. BLAKE, M.D.
EDWARD M. PLUMMER, M.D.

Ophthalmic Chief of Service.

ALEXANDER QUACKENBOSS, M.D.

Aural Chiefs of Service.

FREDERICK L. JACK, M.D.
EUGENE A. CROCKETT, M.D.

Ophthalmic Surgeons.

HENRY H. HASKELL, M.D.
FRED M. SPALDING, M.D.
A. GARDNER MORSE, M.D.
FREDERICK H. VERHOEFF, M.D.
PETER H. THOMPSON, M.D.
GEORGE S. DERBY, M.D.

Aural Surgeons.

PHILIP HAMMOND, M.D.
D. HAROLD WALKER, M.D.
HARRIS P. MOSHER, M.D.
WILLIAM F. KNOWLES, M.D.

Assistant Ophthalmic Surgeons.

CHARLES D. JONES, M.D.
SAMUEL J. McDONALD, M.D.
W. HOLBROOK LOWELL, M.D.
GEORGE H. RYDER, M.D.
EDWARD K. ELLIS, M.D.
P. SOMERS SMYTH, M.D.
WILLIAM N. SOUTTER, M.D.
WALTER B. LANCASTER, M.D.

Assistant Aural Surgeons.

GEORGE H. POWERS, Jr., M.D.
GEORGE L. TOBEY, Jr., M.D.
FRANCIS P. EMERSON, M.D.
LEON E. WHITE, M.D.
CALVIN B. FAUNCE, Jr., M.D.
FREDERICK L. BOGAN, M.D.
DANA W. DRURY, M.D.
JOHN H. BLODGETT, M.D.

Ophthalmic Clinical Assistants.

RALPH A. HATCH, M.D.
HENRY HAWKINS, M.D.
HENRY G. CARROLL, M.D.
EDWARD M. MURPHY, M.D.
WILLIAM LIEBMAN, M.D.
ROLAND C. MACKENZIE, M.D.
HAROLD B. CHANDLER, M.D.

Aural Clinical Assistants.

JOHN L. LOUGEE, M.D.
D. CAMPBELL SMYTH, M.D.
OLIVER A. LOTHROP, M.D.
ROBERT J. KISSOCK, M.D.
FRANKLIN CAMPBELL, M.D.
HARRY P. CAHILL, M.D.
WILLIAM YOUNG.

Pathologist.
FREDERICK H. VERHOEFF, M.D.

Consulting Neurologist to Aural Department.
GEORGE A. WATERMAN, M.D.

Consulting Surgeons.
SAMUEL J. MIXTER, M.D. LINCOLN DAVIS, M.D.

Consulting Physicians.
THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
GERALD BLAKE, M.D.

Visiting Physician to the Gardner Building.
RICHARD S. EUSTIS, M.D.

Consulting Anæsthetist.
ARTHUR M. DODGE, M.D.

Roentgenologist.
WILLIAM LIEBMAN, M.D.

Refractionists.
ROLAND C. MACKENZIE, M.D. HAROLD B. CHANDLER, M.D.

HOUSE STAFF.

Ophthalmic House Surgeons.
ALBERT G. McAULEY, M.D. THOMAS F. CAPELES, M.D
ARMAND A. HALLIDAY, M.D.

Aural House Surgeons.
CLIFFORD B. WALKER, M.D. HAROLD G. TOBEY, M.D.
CHARLES T. PORTER, M.D.

EXECUTIVE OFFICERS.

Superintendent.
FARRAR COBB, M.D.

Matron and Superintendent of Nurses.
MARY COONAHAN.

Assistant to the Superintendent.
JOHN G. SCHROEDER.

Apothecary.
CHARLES E. NUTTER.

Assistant Matron.
HARRIET L. HARRIS.

Opticians.
ANDREW J. LLOYD COMPANY.

REPORT OF THE BOARD OF MANAGERS

OF THE

Massachusetts Charitable Eye and Ear Infirmary.

The Massachusetts Charitable Eye and Ear Infirmary was incorporated in 1827 for the purpose of gratuitously treating diseases of the eye and ear. It is the second oldest hospital in New England. With its capacity of 215 beds for ward patients, its large out-patient clinic, its special building for the treatment of contagious ophthalmia, its pathological building, and its nurses' home, it is the largest hospital for diseases of the eye and ear in the world. Ever since it was started, it has attempted to give the best treatment to poor people, many of whom without its aid would have been unable to gain a livelihood.

At the outset the Board of Managers desire to emphasize the great need of special contributions and gifts of money to meet the large deficit in the running expenses, feeling that the institution at the present time with its increased capacity for carrying on its great charitable work, should be more than ever before an object of interest to people of the State and City. The needs of the Infirmary, as well as the possibilities for good from money contributed, will be explained more in detail later in this report.

The Infirmary has, at frequent intervals in the last fifty years, been compelled to spend large sums of money in increasing the number and size of its buildings to answer the demands made upon it by the wage-earning class.

In the last year the total number of patients admitted to the wards was 3,630, of which number 1,482 were children under fourteen years of age. The daily average number of patients in the wards of the hospital was 170. The total number of days' board furnished was 62,050. Of this 45,274 days were for free patients. The largest number of ward patients in one day was 194, the smallest 119. The number of new patients applying for treatment in the Out-patient Department was 28,674. The total number of patients, new and old, in the Out-patient Department was 58,772. Of the 28,674 new out-patients, 16,263 were residents of the State of Massachusetts, outside of Boston, and 219 came from other States. Of the 3,630 patients treated as inmates in the wards, 2,212 were citizens of Massachusetts cities and towns outside of Boston. 1,280 were residents of Boston.

It may be seen from the list of occupations that the patients applying for treatment, as given in the detailed report of the Superintendent, were artisans, mechanics, clerks, and others of the wage-earning class who were unable to pay a fee for professional services. During the year 232 were refused treatment, being cases considered unfit for a charitable institution.

The following tabulated statement in regard to the growth of the institution will be of interest, and these figures should be multiplied by three or four to show the total attendance, as many old patients, both out-patients and house patients, pass through its different departments more than once in a year.

The number of new patients treated in the wards and out-patient department in

1849 was . . .	2,002	1897 was . . .	21,594
1877 " . . .	9,087	1900 " . . .	28,427
1890 " . . .	15,289	1914 " . . .	32,306

The number of patients treated in the wards in

1900 was . . .	2,180	1914 was . . .	3,630

GARDNER BUILDING.

(A DETACHED BUILDING FOR THE TREATMENT OF CONTAGIOUS OPHTHALMIA, MOST OF THE PATIENTS INFANTS AND CHILDREN.)

The Board of Managers feel that they cannot too often or too emphatically call attention in each annual report to the greatest work of the Infirmary; that is, the care of cases of contagious ophthalmia in a special building given by Mr. George A. Gardner for the treatment of contagious diseases of the eye. This work is of the utmost value sociologically. It annually saves the community a large amount of money in the prevention of blindness. This Gardner Building is the largest and most important special building for this work of any known institution. It is a detached structure, three stories high, with a capacity of 40 beds and isolating facilities. It costs annually to maintain this building over eighteen thousand dollars. In the past year 275 cases of contagious eye diseases were treated, of whom 151 were infants under one and one-half years of age. A detailed report of this special work will be found in the report of the Superintendent. It is sufficient to say of the contagious ophthalmia in infants that no eyes were lost after admission. One of the most important parts of the work of the Social Service Department, to which department attention will be called later, has been in the following up of cases of contagious ophthalmia, especially of infants after they were discharged from the institution, and in investigating the circumstances of these unfortunate children, thus co-operating in enforcing the law in regard to reporting cases of contagious ophthalmia. During the last seven years the Social Service Department has been in close touch, during the stay in the hospital and after leaving the hospital, with 770 cases of contagious ophthalmia in infants.

It is impossible to exaggerate the importance of the work done in the Gardner Building. It is the most difficult, dangerous, and expensive part of the hospital work. The Board of Managers earnestly desire to raise a special endowment fund for this branch of the work of the hospital.

SOCIAL SERVICE DEPARTMENT.

Seven years ago, with the assistance of a few devoted friends especially interested in sociological work and the prevention of blindness, the organization of the Social Service Department was made possible.

Three years ago the Board of Managers, feeling that the department should form a definite part of the hospital policy, voted to assume the entire financial responsibility of the department and to conduct the same as a definite part of the hospital business. In taking over the entire cost of the department, an additional expense of $5,000 annually has been incurred, and there is still need of more workers in the department.

The Managers most earnestly appeal for contributions for maintaining this welfare work, and especially desire large gifts and bequests for the establishment of a special endowment fund.

A separate report of the Social Service Department will be mailed with this published report of the Managers, and we feel that it must impress all who read it with the great necessity for and the great possibilities in such work.

MAINTENANCE.

In the coming year much more money to pay the running expenses of the hospital must be raised by special contributions and gifts than in the previous years, because of the increased work in all departments of the Infirmary, the increased cost of food and other supplies, the necessity of

paying largely increased wages to employees and nurses, the necessary demands of the modern scientific laboratory work, X-ray plant, and refraction rooms. With the perfection of scientific methods the cost to hospitals of properly investigating and diagnosing disease and treating the same is over 25% more than ten years ago.

Since the new buildings were completed in 1899, the Infirmary has had to meet each year a deficit in the expense account of from two to twenty thousand dollars, with the exception of the year 1911. In 1913 the deficit was $14,402.81, in 1914 the deficit was $23,785.64.

The total cost of maintenance of the hospital proper, Out-patient Department, Gardner Building for Contagious Diseases, Pathological Laboratory, X-ray Department, and Nurses' Home was $127,930.06.

The cost per week, per house patient, was $13.72.

The cost of subsistence, per inmate, per day was 21½ cents.

The Managers are again compelled to appeal to the public and make a special plea for contributions. The ever-increasing work in all the departments of the Infirmary, both because of the large number of patients cared for and the expense of providing modern facilities for the professional care of patients, will call for more money each year. The Board of Managers make a special plea for an endowment fund for the Social Service work and for maintaining the work on contagious ophthalmia.

The Managers regret to state that after many years of useful activity Mr. Augustus Hemenway has resigned as one of the Managers.

The Managers of the Massachusetts Charitable Eye and Ear Infirmary regret to state that Dr. Farrar Cobb, after twenty years of usefulness and loyalty to the Infirmary, finds that his professional life requires that he resign as Superintendent.

He first became Superintendent in 1895, before the present Infirmary was built, and since then has given generously of those qualities of character and executive ability which have served the Infirmary so well. In the building of the new Infirmary Dr. Cobb was consulted in every detail, after visiting many modern hospitals, and it is largely due to him that the present Infirmary is one of the standard hospitals of the character in this country.

The Managers testify to the loss which our institution suffers in his resignation.

The Managers regret the resignations, during the past year, of Dr. Frederick E. Cheney, Ophthalmic Chief of Service; Dr. Edmund W. Clap and Dr. Elwood T. Easton, Ophthalmic Surgeons.

The Managers desire to acknowledge with thanks the following legacies and gifts which were received during the year. Of these a portion has been devoted to the Social Service Work.

Legacy Caroline B. Allen estate, $5,000; Francis Bartlett estate, $10,000; Charlotte A. Bradstreet estate, $200.95; Florence Lyman estate, $28.63; Horace W. Wadleigh estate, $1,000; various securities received from Charlotte A. Bradstreet estate, $10,307.75; Charles W. Hubbard, $25; Mrs. Francis M. Forbes, $5; Miss Sarah F. Bremer, $25; Mrs. William C. Loring, $10; Mr. Russell G. Fessenden, $20; Mrs. Robert H. Stevenson, $25; Mrs. Allston Burr, $10; Humane Society of the Commonwealth of Massachusetts, $500; John Lawrence, $500.

CHARLES P. CURTIS,
JOHN LAWRENCE,
JAMES C. HOWE,

Committee of the Board of Managers.

NURSES' HOME.

OPENED AUGUST 5, 1909.

REPORT OF THE TREASURER.

INCOME, RECEIPTS AND DISBURSEMENTS

For the Year ending Sept. 30, 1914.

INCOME.

RECEIPTS:

Income from investments		$27,297.05
Appropriation from the State		45,000.00
Income from trustees, E. V. Ashton estate		1,600.00
Income from estate of Robert B. Brigham		1,000.00
Interest on bank deposits		360.24
Rebate on bank tax		128.73
From Superintendent, as per his report:		
Board of patients	$14,733.94	
Out-patient visits	5,392.80	
Medicines	8,250.80	
Opticians' accounts	4,021.70	
Sundries	1,651.07	34,050.31
		$109,436.33
Excess of payments		23,784.64
		$133,221.97

EXPENDITURES:

Running expenses of hospital per account of Superintendent		$127,930.06
Additional expenses per account of Treasurer:		
Annual Report, printing and postage	$464.93	
I nsurance, auditing, etc.	2,285.83	
Interest on loan	37.22	
Transfer to Social Service Work	2,503.93	5,291.91
		$133,221.97

SOCIAL SERVICE WORK.

RECEIPTS:

Income from Sears Fund	$960.00	
Gifts	1,120.00	
Transfer from Income Account	2,503.93	$4,583.93

EXPENDITURES:

Wages	$4,002.52	
Stationery, printing, etc.	243.19	
Street-car and railroad fares	131.61	
Postage stamps and sundries	126.60	
Telephone	80.01	$4,583.93

INVESTMENTS.

Book Value.	RAILROAD BONDS.	*Par Value.*
$8,785.78	Atchison, Topeka & Santa Fé Ry. Gen. Mtge. 4% Atchison, Topeka & Santa Fé Ry. Adjustment 4%	$11,500.00
4,545.40	Atchison, Topeka & Santa Fé Ry. Convertible 4%	5,000.00
9,925.00	Boston & Albany R.R. Improvement 4%	10,000.00
6,950.00	Burlington & Missouri River R.R. Nebraska 6%	5,000.00
10,637.50	Chicago, Milwaukee & St. Paul R.R. 6%	10,000.00
10,287.50	Chicago, Burlington & Quincy R.R. Ills. Div. 4%	10,000.00
5,244.00	Cincinnati, Indianapolis, St. Louis & Chic. 6%	5,000.00
24,900.00	Chicago Junction Rys. & Union Stock Yards Mortgage 4%	25,000.00
3,000.00	Chicago Junction Rys. & Union Stock Yards, Coll. Tr. 5%	3,000.00
10,400.00	Chesapeake & Ohio General Mortgage 4½%	10,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,675.00	Fitchburg R.R. 4%	10,000.00
10,000.00	Iowa Falls & Sioux City 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield 5%	5,000.00
9,095.00	Kansas City, Memphis & Birmingham 4% Kansas City, Memphis & Birmingham 5%	13,500.00
10,008.50	Kansas City, Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island R.R. 4%	25,000.00
13,776.70	New York Central & Hudson River R.R. 3½%	15,000.00
4,736.25	Northern Pacific-Great Northern R.R. 4%	10,000.00
9,450.00	Oregon Short Line 4%	10,000.00
13,482.65	Pennsylvania R.R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain 5%	10,000.00
$224,914.28		$238,000.00

Book Value.	Miscellaneous Bonds.	*Par Value.*
$4,712.50	American Agricultural Chemical Co. 5%	$5,000.00
19,271.53	American Tel. & Tel. Coll. Tr. 4%	21,000.00
4,792.80	American Tel. & Tel. Conv. 4½%	4,800.00
8,000.00	Butte Electric & Power Co. 5%	8,000.00
9,550.00	California Gas & Electric Corporation 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
4,582.64	Edison Electric Co. of Los Angeles 5%	5,000.00
9,850.00	Georgia Ry. & Electric Co. 5%	10,000.00
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
6,700.00	Mass. Hospital Life Ins. Co.	6,700.00
4,930.00	Mass. Elec. Co. 5%	5,000.00
15,000.00	New Eng. Tel. & Tel. 5%	15,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
3,000.00	Savannah Electric Co. 5%	3,000.00
9,800.00	Southern California Edison Co. 5%	10,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
5,100.00	State of Massachusetts 3%	5,000.00
9,625.00	United States Steel Corp. 5%	10,000.00
10,150.00	Tacoma Ry. & Power Co. 5%	10,000.00
4,975.00	United Electric Securities Co. 5%	5,000.00
9,850.00	United Fruit Co. 6%	10,000.00
$188,008.08		$190,500.00

No. of Shares.	Railroad Stocks.	*Book Value.*
135	Atchison, Topeka & Santa Fé Ry. Preferred	$10,792.66
16	Boston & Maine R.R. Common	840.00
2	Boston & Providence R.R.	510.00
100	Chicago Junction Rys. & Union Stock Yards Preferred	11,907.50
25	Concord & Montreal R.R.	1,346.25
62	Chicago & Northwestern R.R.	7,981.25
21	Fitchburg R.R. Preferred	2,063.13
20	Manchester & Lawrence R.R.	1,830.00
100	Manhattan Railway	14,187.50
50	New York Central & Hudson River R.R.	5,881.25
15	Northern R.R.	1,215.00
4	New York, New Haven & Hartford R.R.	315.50
100	Union Pacific R.R. Preferred	8,156.25
5	Vermont & Mass. R.R.	410.00
		$67,436.29

No. of Shares.	Real Estate.	*Book Value.*
12	Boston Real Estate Trust	$12,300.75
15	Boston Ground Rent Trust	1,500.00
5	Providence Building Trust	500.00
9	Boston Personal Property Trust	990.00
2	Devonshire Building Trust	200.00
5	Warren Chambers Trust	500.00
2	Western Real Estate Trust	264.00
		$16,254.75

No. of Shares.	Miscellaneous Stocks.	*Book Value.*
246	American Tel. & Tel. Co.	$30,286.62
4	Amherst Gas Co.	560.00
100	American Sugar Refining Co. Preferred	11,680.75
250	Ballard Vale Mills Preferred	25,000.00
3	Edison Electric Illuminating Co.	781.50
1	Fitchburg Gas & Electric Light Co.	118.00
58	Mass. Elec. Preferred	5,000.00
3	N. E. Tel. & Tel.	399.75
4	West End St. Ry. Common	272.00
100	West End St. Ry. Common	7,518.70
8	Western Union Tel. Co.	504.00
3	Walter Baker Co., Ltd.	1,200.00
		$83,321.32

SUMMARY.

Stocks and Bonds: Investments (book value)	$579,934.72
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Cash on hand and in Superintendent's hands	23,465.51
	$1,166,741.85

Liabilities.

Capital, including various funds and legacies	$1,166,741.85

REPORT OF THE SUPERINTENDENT.

STATISTICS OF HOUSE PATIENTS.

The total number of patients treated in the wards was 3,630.

Of the 3,630 house patients, 2,110 were males and 1,250 were females.

Number of patients treated in ophthalmic wards . .	1,805
Number of patients treated in aural wards	1,825

Of this number 275 were treated in the Gardner Building for contagious diseases. 151 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows later. The daily average number of patients treated in this building was 19.

Of the total number of patients treated in the wards 1,482 were children under fourteen years of age.

The daily average number of patients treated in the wards was 170.

The largest number of house patients treated on any one day was 194; the smallest number, 119.

Number of free patients admitted	1,595
Paying patients at $1 per week	203
Paying patients at $2 per week	137
Paying patients at $3 per week	264
Paying patients at $4 per week	16
Paying patients at $5 per week	268
Paying patients at $6 per week	8
Paying patients at $7 per week	535
Paying patients at $10 per week	429
Paying patients at $15 per week	35
Patients remaining in wards Sept. 30, 1913	140

The apparently large number of patients paying $7 to $10

per week remained in the hospital only one or two days for minor operations.

The average stay per patient in the hospital under treatment was 18 days.

62,050 days' board was furnished to patients. 16,776 days' was paid, and 45,274 free.

RESIDENCES OF HOUSE PATIENTS.

Boston	1,280	Connecticut	6
Mass. (excepting Boston)	2,212	Other States	2
Maine	21	Canada	1
New Hampshire	67	Other Countries	8
Vermont	22	Total	3,630
Rhode Island	11		

OCCUPATIONS OF HOUSE PATIENTS.

Males.—Ophthalmic.

Actor	1	Painters and glaziers	14
Agents	2	Pedlers	14
Bakers and cooks	12	Pensioners	10
Barbers	3	Porters	11
Blacksmiths	11	Policeman	1
Butchers	8	Physicians and dentists	4
Carpenters and woodworkers	48	Plumbers and steamfitters	8
Chauffeurs	4	Printers and compositors	1
Clerks	26	Photographers	2
Coachmen and hostlers	9	Railroad employees	23
Draughtsman	1	Salesmen	7
Electricians	10	Seamen and fishermen	8
Engineers	9	Shippers	3
Engravers	2	Shoemakers	9
Farmers	28	Soldiers	3
Firemen	8	Students	2
Janitors	4	Stonecutters	15
Laborers	202	Storekeepers	7
Laundrymen	2	Tailors	12
Lawyers	2	Teamsters	26
Letter carrier	1	Telephone operators	3
Machinists	37	Waiters	7
Masons	17	Watchmen	4
Metal workers and moulders	40	Unclassified	40
Mill and factory operatives	149	Minors	292
Musicians	4	Total	1,167
Nurse	1		

MALES.—AURAL.

Agents	2	Mill and factory operatives	72
Bakers and cooks	5	Musicians	4
Barber	1	Painters	6
Blacksmiths	5	Porters	5
Bookbinder	1	Plumbers	4
Carpenters and woodworkers	11	Printers and compositors	6
Chauffeurs	3	Railroad employees	8
Clerks	35	Salesmen	4
Electricians	9	Seamen and fishermen	6
Engineers	4	Shippers	4
Farmers	4	Shoemakers	9
Firemen	8	Soldiers	2
Gardeners	3	Students	4
Hospital attendant	1	Tailors	9
Janitor	1	Telegraphers	2
Laborers	72	Teamsters	21
Laundrymen	5	Waiters	3
Machinists	16	Unclassified	2
Masons	2	Minors	569
Metal workers and moulders	15	Total	943

FEMALES.—OPHTHALMIC.

Book-keeper	1	Nurses	9
Clerks	8	Saleswomen	2
Cook	1	Stenographers	2
Domestics	58	Teachers	3
Dressmakers and seamstresses,	11	Telephone operator	1
Housewives	237	Waitresses	8
Mill and factory operatives	44	Minors	252
Musician	1	Total	882

FEMALES.—AURAL

Book-binder	1	Settlement worker	1
Clerks	28	Stenographers	3
Cook	1	Student	1
Domestics	65	Teacher	1
Dressmakers and seamstresses,	12	Telephone operators	4
Housewives	102	Waitresses	6
Mill and factory operatives	32	Unclassified	4
Nurses	8	Minors	606
Saleswomen	7	Total	882

CONDITION OF HOUSE PATIENTS AT DISCHARGE.

432 were well.
2,769 were relieved.
96 were not relieved.
70 left against advice.
14 were not treated.
51 died.
40 were transferred to other hospitals for other diseases.
158 remaining in hospital Sept. 30, 1914.

NUMBER OF OPERATIONS.

In the Ophthalmic Departments there were 1,240 operations performed in the house, and 1,908 in the Out-patient Department.

In the Aural Departments there were 1,655 operations performed in the house, and 1,104 in the Out-patient Department.

OUT-PATIENT DEPARTMENT.

New patients treated:—		
Ophthalmic: Males	9,944	
Females	8,790	
		18,734
Aural: Males	5,141	
Females	4,801	
		9,942
Total		28,676
Old patients treated:—		
Ophthalmic	15,840	
Aural	14,256	
		30,096
Total visits in Out-patient Department		58,772

RESIDENCES OF OUT-PATIENTS.

Boston	12,158	Connecticut	4
Mass. (excepting Boston)	16,263	Other States	6
Maine	71	Canada	2
New Hampshire	103	Other Countries	1
Vermont	45	Total	28,676
Rhode Island	23		

OCCUPATIONS OF OUT-PATIENTS.

Actors	5	Milliners	118
Agents	53	Mill and factory employees	3,396
Barbers	69	Moulders and iron workers	82
Bakers	110	Musicians	103
Blacksmiths	159	Nurses	100
Book-binders	232	Painters	434
Book-keepers	208	Pedlers	496
Butchers	111	Pensioners	90
Carpenters and woodworkers,	511	Photographers	25
Chauffeurs	50	Physicians and dentists	12
Clergymen	14	Plumbers	183
Clerks	852	Policemen and letter-carriers,	159
Coachmen and hostlers	187	Porters	229
Compositors and printers	186	Railroad employees	296
Cooks	50	Soldiers	47
Domestics	711	Seamstresses	729
Draughtsmen	23	Shoemakers	606
Electricians	201	Stenographers	284
Engineers	183	Stone-cutters	331
Engravers	101	Storekeepers	217
Farmers	318	Students	119
Firemen	101	Tailors	816
Fishermen and seamen	100	Teachers	69
Housewives	3,003	Teamsters	384
Hotel and lodging-house keepers	180	Telephone and telegraph operators	221
Laborers	2,808	Waiters	104
Lawyers	4	Unclassified	1,364
Masons	86	Minors	6,496
Messengers	67	Total	28,676
Machinists	533		

SPECIAL REPORT ON THE WORK OF THE GARDNER BUILDING.

During the past year 275 cases were treated in the special wards of the Gardner Building. Of these there were 89 cases of gonorrhœal ophthalmia, 20 occurring in adults, 10 in children, and 59 in infants soon after birth. There were 106 cases of purulent ophthalmia, non-gonorrhœal: 8 of these were in adults, 25 in children, and 73 in infants. At the time of entrance the cornea was involved in 19 cases of gonorrhœa, of which 9 were adults, 5 children, and 5 infants. The cornea became involved in but 1 after admission: this one being a child.

Saemisch's operation was performed twice.

9 cases of specific iritis with active secondary lesion of the disease were treated. There were also 2 cases of trachoma, 1 case of acute conjunctivitis, and 1 case of phlyctenular conjunctivitis, 1 of ulcerative keratitis, and 1 of interstitial keratitis.

65 cases were transferred to the Gardner Building for measles, scarlet fever, pertussis, erysipelas, and other infectious diseases which manifested themselves in the general wards of the hospital.

EXPENDITURES FOR 1914.

The total expenditure by the Superintendent has been $127,930.06, which is itemized as follows:—

Provisions		$23,663.07
Meat, fish, and poultry	$9,288.80	
Fruit and vegetables	2,350.40	
Bread and flour	1,085.23	
Milk	3,959.15	
Groceries	3,839.01	
Butter and eggs	3,140.48	
Wines, liquors, and alcohol		651.75
Water rates		1,960.40
Hospital	1,742.40	
Nurses' Home	218.00	
Soap and soap powder		528.62
Gas and electric lighting		1,517.80
Gas (hospital)	510.80	
Gas and electric lighting (Nurses' Home)	1,007.00	
Ice		1,525.36
Heat, light, and power		10,000.01
Fuel		1,421.52
Kitchen	550.13	
Nurses' Home	871.39	
Medicines and drugs		5,516.17
Furniture and bedding		1,210.49
Stationery and printing		1,260.49
Salaries and wages		55,614.14
Officers (administration, nursing, pathological and X-ray departments and refractionists)	13,583.96	
Clerks (Superintendent's Office, Out-patient Department, and telephone)	3,886.21	
Engineers and watchman	1,796.00	
Carpenters and painters	1,520.00	
Ward masters, orderlies, porters, and laboratory man	8,976.75	
Apothecary assistants	909.50	
Elevator man	410.00	
Janitor (Nurses' Home)	540.00	

Head nurses, operating-room nurses, etherizer, and history nurse	$7,109.19	
Post-graduate nurses	864.00	
Special nurses	1,081.89	
Attendant nurses	5,321.51	
Housekeepers	780.00	
Kitchen and dining-room employees	2,851.78	
Laundresses	2,995.74	
General women and ward maids	2,454.61	
Seamstresses	533.00	
Optical and surgical instruments and instrument repairs		$1,627.75
Spectacles and eyeglasses furnished free to wards of the State of Massachusetts and very poor patients		550.75
Repairs, improvements, and new apparatus		7,499.39
X-ray apparatus	131.00	
Operating-room (Gardner Building)	180.00	
Sterilizer repairs	71.73	
Plumbing	821.76	
Laundry plant	1,940.31	
Steam plant	548.37	
Electric plant, lamps, fixtures, etc.	507.53	
Carpenter work	1,413.00	
Painting, glazing, and care of ward floors	896.34	
Kitchen cooking apparatus	124.31	
Elevators and dumb waiters	225.68	
Furniture and bedding	216.75	
Fire extinguisher	21.00	
Locks, keys, hardware	284.93	
Roofing	71.60	
Grounds (hospital and Nurses' Home)	45.08	
House, ward, and surgical supplies		10,256.24
Kitchen and dining-rooms	218.81	
Linen-room	1,487.38	
Surgical supplies	6,372.42	
Bacteriological laboratory supplies	126.88	
Laundry and general supplies	1,047.08	
X-ray supplies	279.57	
Uniforms (doctors, nurses, orderlies and patients)	724.10	
Contingent and sundries		3,126.11
Sundries, nurses' library and training school	463.81	
Surgeons' library	400.50	
Postage and express	164.54	
Telephone	955.81	
Advertising (House officers and Post-graduate School)	190.60	

Wassermann tests	$872.00
Office	78.85

The value of stock on hand Oct. 1, 1914, was:—

House and surgical supplies	$6,224.67	
Drugs and medicines	3,062.89	
Provisions	315.90	$9,603.46

The value of stock on hand Oct. 1, 1914, was	9,603.46
The value of stock on hand Oct. 1, 1913, was	9,280.55
	$322.91

Deducting the difference in value of stock on hand Oct. 1, 1913, $322.91, and Oct. 1, 1914, gives the cost of maintenance per house patient per week as $13.72. The cost of uncooked food supplies for all persons, including patients and the entire household at the hospital, was $23,663.07.

The daily average number of patients was 170; of officers and employees, including house and nursing staff, 130; or a total daily average of 300 persons. The number of weeks' board of all persons was 15,643, and the weekly cost per person for uncooked food supplies was $1.51, or 21½ cents per day.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

During the past year 136 lectures and classes were given by the Surgical Staff, the House Staff, and the Superintendent of Nurses. The subjects covered were the Anatomy and Physiology of the Eye, Ear, Nose, and Throat, Clinical Diseases, and Surgery of the same, Refraction, Aural and Ophthalmic Nursing and special nursing of Brain Abscess, the Ear in Art and History, the Hospital Formulary, Contagious Diseases, the Care of Infants, Teaching the Deaf and Blind, and the Nurse as a Social Worker. Special and individual instruction was given in sterilizing, etherizing, operating-room technique, the preparation of infants' food, and in social service work.

The number of post-graduate and pupil nurses taking the course was 14. 9 graduates received the diploma of the school. 36 applications for the course were received during the year.

In addition to the regular special training, instruction in social service work and hospital management has been given. The practical details of the duties of an executive nurse in charge of a floor or ward have been taught by the permanent head nurses, and practical experience given as substitutes. The opportunity to teach pupil nurses in class and a number of lectures on hospital organization, management, buying, etc., have been given.

A COMPARATIVE REPORT OF THE WORK OF THE INFIRMARY FOR THE LAST TEN YEARS.

Report of the House and Out-patient Departments from Sept. 30, 1905, to Oct. 1, 1914, showing the yearly increase in the number of patients treated in each department, also the total number of patients treated in both departments during the past ten years:—

	House Patients Ophthalmic.	*House Patients Aural.*	*Out-patients Ophthalmic.*	*Out-patients Aural.*	*Total.*
1905	1,651	1,251	23,498	8,919	35,319
1906	1,611	1,305	23,343	6,213	34,472
1907	1,628	1,578	24,012	8,919	36,137
1908	1,524	1,645	21,113	9,449	33,731
1909	1,396	1,719	19,375	9,128	31,618
1910	1,646	1,910	19,542	9,364	32,462
1911	1,700	1,749	20,408	9,467	33,324
1912	1,646	1,874	19,265	9,182	31,967
1913	1,756	1,896	19,853	10,159	33,664
1914	1,805	1,825	18,734	9,942	32,306
Totals . .	16,363	16,752	209,143	92,742	335,000

A total of 335,000 new patients treated in the Out-patient Department. As these patients made an average of three visits, it brings the total number of visits of patients to 1,005,000.

FARRAR COBB, M.D.,
Superintendent.

LIVING ROOM. NURSES' HOME.

REPORT OF THE PATHOLOGICAL LABORATORY.

To the Board of Managers of the
Massachusetts Charitable Eye and Ear Infirmary:

Gentlemen,—The investigation of the pathological effects of radiant energy upon the eye, which has been carried on in this laboratory with the collaboration of Mr. Louis Bell, Ph.D., during the past two years, has been completed and will be published in full by the American Academy of Arts and Sciences. A preliminary report has already been published in *Science*.

The subject of angioma of the choroid has been studied by J. M. Love and a case of this rare tumor published by him. In addition to this, several other unusual cases have come to pathological examination and will be published in due course. Experimental investigations relating to glaucoma and neuropathic keratitis are in progress.

At a recent meeting of the American Academy of Ophthalmology and Oto-Laryngology in this city a lantern demonstration was given, showing some of the work done in this laboratory.

FREDERICK H. VERHOEFF, M.D.,
Pathologist.

Sept. 30, 1914.

SCIENTIFIC PAPERS PUBLISHED BY THE SURGICAL STAFF DURING THE YEAR 1914.

"Sclerocorneal Trephining for Glaucoma, Complications and Failures in One Hundred Cases." By Alex Quackenboss, M.D. Transactions American Ophthalmological Society, 1914. *Archives of Ophthalmology*, November, 1914.

"Burn of Eyes from Contents of Golf-Ball Core." By W. Holbrook Lowell, M.D. *American Medical Association Journal*, Dec. 27, 1913. "Partial Tenotomies by the Todd-Harmon Method." By W. Holbrook Lowell, M.D. Transactions American Academy of Ophthalmology and Oto-Laryngology, Oct. 20, 1914. *Boston Medical and Surgical Journal.*

"Eye Strain and Ocular Discomfort from Improper Illumination." By Walter B. Lancaster, M.D. *Annales Ophthalmology*, April, 1914. "Injurious Effects of Light on the Eyes." By Walter B. Lancaster, M.D. *New York Medical Journal*, August, 1914.

"Instrument for Testing Eye-Magnets." By Walter B. Lancaster, M.D. Transactions Ophthalmological Section, American Medical Association, 1914, page 469.

"Ultra Violet Light as a Germicidal Agent. Experimental Investigation of its Possible Therapeutic Value." *Journal American Medical Association*, 1914. "The Alleged Dangers to the Eye from Ultra Violet Radiations." *Science*, 1914. "Chronic Ocular Tuberculosis. Necropsy Findings in a Case in which Death was Due to Tuberculosis of the Hypophysis Cerebri." *Journal American Medical Association*, 1914. "Pathological Examination of Dr. Friedenwald's Case of Retinitis with Massive Exudation." American Ophthalmological Transactions, 1914. By F. H. Verhoeff, M.D.

"A Significant Hearing Test in the Diagnosis of Specific Auditory Nerve Deafness." Transactions Philadelphia

INTERIOR PATHOLOGICAL LABORATORY.

Laryngological Society, June 25, 1914. By Francis P. Emerson, M.D.

"An Operation for Correcting the Aquiline Nasal Deformity. The Use of a New Instrument." Report of a Case. *Boston Medical and Surgical Journal*, May 28, 1914. "The Use of a Section of the Scapula in Correcting a Nasal Deformity." *Boston Medical and Surgical Journal*, Aug. 20, 1914. By Oliver A. Lothrop, M.D.

REPORT OF THE X-RAY DEPARTMENT.

The following cases have been examined in this department.

	+	—
Accessory sinuses:		
sinusitis		93
sphenoidal sinusitis	5	
Frontal sinus:		
sinusitis	83	26
absence of	7	
Ethmoid sinuses:		
sinusitis	87	14
Fronto-ethmoiditis	49	
Antrum Highmore:		
sinusitis	108	8
sarcoma	1	
osteo sarcoma	2	
Pansinusitis	47	
Teeth		5
wisdom tooth impacted	5	
wisdom tooth unerupted	7	
caries or abscess	18	
disease molar root in antrum	6	
dentigenous cyst	3	
Mastoid:		
mastoiditis, acute	160	62
mastoiditis, chronic sclerosed	149	
mastoiditis, chronic sclerosed with cholesteotome	18	1
fracture	4	1
carcinoma	1	
Otititis externa diffusa	6	

Skull:		
sella turcica; enlargement of	5	5
sella turcica; enlargement of with acromegaly	1	
congenital malformation	1	
Fractures:		
frontal bone	1	
nasal bone	2	
parietal and squamous temporal	1	
maxilla, superior	2	
maxilla, inferior	1	
Periostitis frontal bone (specific)	1	
Osteitis frontal bone (specific)	1	
Osteitis palate bone (specific)	1	
Cerebral tumor		2
Œsophagus:		
foreign body		2
tumor	1	1
Larynx:		
foreign body	1	1
adductor paralysis (pulmonary aneurism)	2	
Foreign body in eye	39	83
sclera	3	
orbit (double perforation)	6	
orbit	1	
lid	1	
eye not found in X-ray	2	
Orbit:		
tumor	1	
cellulitis	3	
fracture	2	1
Unclassified	6	
	851	306
Treatments		59

WILLIAM LIEBMAN, M.D.,

Roentgenologist.

REPORT OF OPHTHALMIC DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

Conjunctiva.

Conjunctivitis:	
acute	2
chronic	2
follicular	3
gonorrhœal:	
in adults	20
in children	10
in infants	59
membranous	2
phlyctenular	8
purulent:	
in adults	9
in children	25
in infants	73
trachomatous	36
with pannus	13
Dermoid cyst	1
Pterygium	10
Symblepharon	2
Total	275

Cornea.

Abscess	3
Keratitis:	
acne rosacea	2
dendritic	1
interstitial	52
marginal	6
neuropathic	9
phlyctenular	61
serpiginous	9
simple	4
superficial	5
superficial punctate	1
traumatic	12
tuberculous	3
ulcerative	64
with hypopyon	52
with perforation	4
Kerato-conus	1
Kerato-iritis	5
Kerato-scleritis	3
tuberculous	4
Leucoma:	
adherent	12
inflamed	4
Melanoderma lenticularis progressiva	1
Staphyloma	4
Total	322

Glaucoma.

Absolute	11
Acute	19
Chronic	55
Secondary	15
Simplex	2
Total	102

Globe and Orbit.

Abscess of orbit	1
Buphthalmus	6
Contracted orbit	6
Cyst of orbit	1
Disorganized globe	20
Foreign body in globe	9
Nævus of eye and face	1
Panophthalmitis	6
Phthisis bulbi	4
Siderosis bulbi	1
Sympathetic ophthalmia	4

Tumors:	
cyst	3
epithelioma	4
glioma	7
sarcoma	6
unclassified	5
Total	84

Injuries.

Burns:	
conjunctiva	4
conjunctiva and cornea	17
conjunctiva and lids	9
cornea	4
Laceration of lids	8
Non-penetrating:	
globe	5
with hyphæmia	14
Penetrating:	
ciliary region	8
cornea	19
with foreign body	7
with prolapse of iris	12
cornea and iris	10
with foreign body	2
cornea and lens	8
cornea, iris, and lens	38
with foreign body	4
sclera	15
with foreign body	11
with prolapse of vitreous	1
rupture	9
Total	205

Iris, Choroid, and Ciliary Body.

Blocked pupil	9
Irido-cyclitis	7
Iris bombé	1
Iritis:	
gonorrhœal	2
rheumatic	28
simple	13
syphilitic	24
traumatic	7
tuberculous	7
Uveitis	14
Total	112

Lachrymal Apparatus.

Abscess	1
Dacryo-cystitis:	
acute	9
chronic	37
Obstruction	4
Total	51

Lens.

Cataract:	
capsular	56
complicated	7
congenital	51
hypermature	11
immature	30
mature	199
pre-senile	5
traumatic	45
Dislocated lens:	
into anterior chamber	1
into posterior chamber	2
Total	407

Lids.

Abscess	5
Adhesions	1
Coloboma congenital	2
Cyst	3
dermoid	1
Dermatitis	2
Ectropion	6
Entropion	5
Epithelioma	3
Lupus	1
Melanotic sarcoma	1
Papilloma	1
Ptosis	1
congenital	8

Trichiasis	5
Trichinosis	1
Total	46

Muscle and Nerve Affections.

Amblyopia	1
Herpes zoster ophthalmicus	4
Paralysis of sixth nerve	1
Paralysis of third nerve	2
Strabismus:	
convergent	55
divergent	11
vertical	2
Total	76

Optic Nerve.

Atrophy	12
Neuritis	6
Total	18

Retina.

Chorio-retinitis	4
Hemorrhagic retinitis	2
Neuro-retinitis	1
Separation of retina	14
Total	21

Miscellaneous.

Episclevitis	1
Ophthalmia nodosa	2
Scleritis	5
Unclassified	3
Total	11

Summary.

Conjunctiva	275
Cornea	322
Glaucoma	102
Globe and orbit	84
Injuries	205
Iris, choroid, and ciliary body	112
Lachrymal apparatus	51
Lens	407
Lids	46
Muscle and nerve affections	76
Optic nerve	18
Retina	21
Miscellaneous	11
Total	1,730

OPHTHALMIC OPERATIONS.

HOUSE PATIENTS.

Conjunctiva.

Conjunctival flap	13
Pterygium	9
Stripping	5
Suturing	1
Total	28

Cornea.

Cauterization	3
Paracentesis	8
Saemisch	24
Scraping	1
Total	36

Enucleations.

Buphthalmus	4
Disorganized globe	22
Glaucoma absolute	12
Injury	19
Insertion of glass ball	5
Irido-cyclitis	2
Panophthalmitis	36
Phthisis bulbi	4
Staphyloma	3
Tumor of globe	10
Total	117

Evisceration.

Insertion of glass ball	1
Simple	5
Total	6

Iris.

Iridectomy:	
anterior synechia	1
glaucoma	12
optical	16
preliminary	10
Iridotomy	6
Prolapsed iris abscised	12
Total	57

Lachrymal Apparatus.

Abscess evacuated	3
Agnew's operation	7
Extirpation of sac	35
Total	45

Lens.

Capsulotomy	18
Capsulotomy, preliminary	17
Cataract extraction:	
in capsule with iridectomy	1
linear	10
simple	7
suction	8
with buttonhole of iris	3
with iridectomy	210
with Van Lint	33
Discission	268
Total	575

Lids.

Abscess evacuated	4
Ectropion	6
Entropion	7
Extirpation of cyst	4
Extirpation of tarsus	6
Plastic	19

Ptosis:	
Hess	5
Pagenstecher	4
Tumor excised	8
Wound sutured	5
Total	68

MUSCLES.

Advancement:	
external rectus	33
internal rectus	8
Tenotomy:	
external rectus	6
inferior rectus	1
internal rectus	65
Total	113

ORBIT.

Abscess evacuated	8
Graft, Thiersch	9
Graft, Wolfe	2
Removal of glass ball	2
Tumor excised	4
Total	25

SCLERA.

Sclerotomy	40
Sclerotomy with iridectomy	52
Suturing	1
Total	93

MISCELLANEOUS.

Exenteration	4
Extraction of intra-ocular steel,	41
Neo-salvarsan	29
Salvarsan	3
Total	77
Total number of operations	1,240

OUT-PATIENT OPERATIONS.

Abscess lids	16
Abscess of brow	4
Agnew's incision	7
Chalazion	131
Conjunctiva sutured	1
Cut of lids sutured	2
Dacryo-cystitis	14
Foreign body removed from conjunctiva	85
Foreign body removed from cornea	1,478
Foreign body removed from lid,	122
Hordeolum	40
Pterygium	6
Verruca	2
Total	1,908

OPHTHALMIC OUT-PATIENT DEPARTMENT.

DISEASES OF OUT-PATIENTS.

Refraction.

Astigmatism	4,610
Hypermetropia	5,039
Myopia	452
Presbyopia	1,060
Emmetropia	106
Total	11,267

Lids.

Abscess of	34
Blepharitis	
squamous	361
ulcerative	208
Dermatitis of	5
Eczema of	25
Ectropion of	16
cicatricial	12
senile	8
Œdema of	57
Entropion of	12
senile	2
Epicanthus	1
Hordeolum	160
external	102
internal	30
Phthiriasis palpebrarum	1
Trichiasis	33
Total	1,037

Lachrymal Apparatus.

Dacryo-cystitis:	
acute	69
chronic	67
Epiphora	57
Mucocele	55
Occlusion puncta	36
Stenosis of lachrymal duct	66
Total	350

Conjunctiva.

Conjunctivitis:	
acute	1,583
subacute	255
chronic	758
eczematous	2
follicular	64
gonorrhœal:	
adult	20
children	16
ophthalmia neonatorum	119
herpetic	2
Parinaud's	1
phlyctenular	234
trachomatous	98
with pannus	23
vernal	8
blepharo-	19
Lymphoid hypertrophy of	9
Lymphangiectasis	4
Pterygium	84
Pinguecula	31
Symblepharon	2
Total	3,332

Cornea.

Conical cornea	4
Keratitis	8
Dendritic	3
ex acne rosacea	8
interstitial	72
marginal	56
neuropathic	43
phlyctenular	313
punctate	1
serpiginous	5
superficial	40

ulcerative	237
with hypopyon	26
with pannus	4
Leucoma of	100
adherent	28
inflamed	2
Macula of	124
Nebula of	113
Staphyloma	16
Phlyctenular kerato-conjunctivitis	11
Kerato-iritis	15
Total	1,229

Sclera.

Episcleritis	27
Scleritis	18
Sclero-keratitis	8
Total	53

Lens.

Aphakia	5
Cataract:	
capsular	11
congenital	19
complicated	3
cortical	4
lamellar	2
hypermature	11
immature	130
incipient	179
mature	124
polar:	
anterior	4
posterior	5
pre-senile	1
senile	11
peri-nuclear	2
Total	521

Uveal Tract.

Iris:	
coloboma	11
hyperæmia	19
Iritis	146
gonorrhœal	6
rheumatic	25
syphilitic	32
plastic	8
Excluded pupil	5
Irido-cyclitis	9
Choroid:	
atrophy of	11
coloboma of	4
Choroiditis	8
central	3
disseminated	2
high myopic	4
Chorio-retinitis	27
Uveitis	17
syphilitic	2
Total	339

Retina.

Amaurotic family idiocy	2
Arterio-sclerosis of retinal vessels	9
Obstruction of retinal artery	3
Obstruction of retinal vein	1
Œdema of	3
Retinitis	14
albuminuric	4
hemorrhagic	17
pigmentosa	14
proliferans	2
Separation of	27
Total	96

Vitreous.

Hemorrhage into	5
Opacities of	47
Muscæ volitantes	10
Total	62

Optic Nerve.

Atrophy of	41
Choked disc	1

Neuro-retinitis	12
Optic neuritis	11
Retrobulbar neuritis	7
Toxic amblyopia	32
Total	104

Glaucoma.

Glaucoma	14
absolute	14
acute	18
chronic	23
secondary	10
simplex	6
subacute	2
Buphthalmos	4
Total	91

Eyeball.

Anophthalmos	22
Disorganized globe	50
Exophthalmos	4
Panophthalmos	3
Microphthalmos	4
Total	83

Orbit.

Abscess of	3
Cellulitis	4
Periostitis	1
Contracted orbit	1
Total	9

Disturbances of Motility.

Nystagmus	31
Paralysis of:	
third nerve	28
fourth nerve	4
sixth nerve	25
seventh nerve	4
Esophoria	12
Exophoria	14
Strabismus:	
alternating convergent	23
convergence	263
divergence	102
Artificial mydriasis	60
Ptosis	24
congenital	3
Total	593

Tumors.

Conjunctiva:	
cyst	2
Lids:	
angioma	1
epithelioma	14
chalazion	410
milium	7
papilloma	3
verruca	9
sebaceous cyst	14
xanthalasma	7
nævus	4
Total	471

Unclassified Conditions.

Brow abscess	7
Facial paralysis	13
Frontal sinusitis	24
Herpes zoster ophthalmicus	4
Internal hydrocephalus	1
Inflamed socket	1
Supra-orbital neuralgia	2
Total	52

Injuries.

Conjunctiva:	
burn of	84
ecchymosis	181
foreign body in	85
hyperæmia	6
laceration	42
Total	398

Cornea:	
abrasion	184
burn of	57
cut of	17
foreign body in	1,478
Total	1,736
Lids:	
burn of	36
cut of	46
ecchymosis of	46
foreign body in	122
Total	290
Orbit:	
emphysema	1
Total	1
Eyeball:	
contusion of	65
with hyphemia	43
irritation from foreign body	132
rupture of globe	9
Total	249
Perforating wound of cornea	60
Perforating wound of cornea and iris	8
Perforating wound of cornea, iris, and lens	35
Perforating wound of cornea with prolapse of iris	7
Perforating wound of cornea with foreign body in lens,	2
Perforating wound of cornea with hypopyon	1
Perforating wound of cornea with foreign body in globe	5
Total	118
Perforating wound of ciliary region	3
Perforating wound of sclera	17
Rupture of sclera	1
Total	21

Non-perforating Injuries.

Traumatic cataract	48
Traumatic conjunctivitis	21
Traumatic irido-donesis	1
Traumatic hyalitis	3
Traumatic iridio-cyclitis	2
Traumatic iritis	13
Traumatic keratitis	76
Traumatic rupture of choroid.	2
Total	166

Miscellaneous.

Visions not refacted	165
Referred to other institutions	212
Referred to aural department	372
Unfit patients	147
Total	876

ADELAIDE LECOMPTE SPALDING MEMORIAL WARD.

SUMMARY.

Refraction	11,267
Lids	1,037
Lachrymal apparatus	350
Conjunctiva	3,332
Cornea	1,229
Sclera	53
Lens	521
Uveal tract	339
Retina	96
Vitreous	62
Optic nerve	104
Glaucoma	91
Eyeball	83
Orbit	9
Disturbances of motility	593
Tumors	471
Unclassified conditions	52
Injuries	2,978
Miscellaneous	896
Total	23,583

REPORT OF AURAL DEPARTMENT.

DISEASES OF HOUSE PATIENTS.

I. DISEASES OF EXTERNAL EAR.

	R.	B.	L.
Congenital deformity	0	0	1
Exostosis	0	0	1
Otitis externa furunculosa	6	1	7
cum erysipelas	1	0	1
Perichondritis	3	0	5
Carcinoma	0	0	2
Pre-auricular bronchial cyst	0	0	1
Stenosis	1	0	3

II. DISEASES OF THE MIDDLE EAR.

a. *Acute Suppurative Inflammations.*

Otitis media suppurativa acuta	19	7	21
cum mastoiditis	109	4	120
mastoiditis (recurrent)	2	0	1
mastoiditis Bezold abscess	2	0	1
mastoiditis et erysipelas	0	0	2
mastoiditis et extradural abscess	1	0	2
mastoiditis et facial paralysis	2	0	2
mastoiditis et meningitis	3	1	3
mastoiditis et perisinus abscess	3	0	5
mastoiditis et post-aural abscess	15	0	25
mastoiditis et post-aural, perisinus, et extradural	1	0	0
mastoiditis et sinus thrombosis	4	0	6
mastoiditis et otitis externa furunculosa	0	0	2
mastoiditis et pre-auricular abscess	1	0	1
mastoiditis et broncho-pneumonia	1	0	0
mastoiditis et lobar pneumonia	0	0	11

b. *Chronic Suppurative Inflammations.*

	R.	B.	L.
Otitis media suppurativa chronica,			
cum cholesteatoma et facial paralysis	11	0	11
cholesteatoma	7	1	6
facial paralysis	3	0	0
mastoiditis	16	17	26
mastoiditis et labyrinthitis	5	1	2
mastoiditis (recurrent)	12	0	12
mastoiditis et sinus thrombosis	0	0	3
mastoiditis et sinus thrombosis et septicæmia	0	0	1
mastoiditis et meningitis	3	0	2
mastoiditis et perisinus abscess	1	0	0
mastoiditis et sinus thrombosis et meningitis	1	0	0
mastoiditis et cerebral abscess et meningitis	0	0	1
mastoiditis (post-operative) et post-aural sinus	2	0	3
mastoiditis et pulmonary embolism	0	0	1
mastoiditis et dementia præcox	0	0	1

III. DISEASES OF THE INTERNAL EAR.

Labyrinthitis	0	2	1
Syphilitic	0	20	4
Otosclerosis	0	2	0
Hemorrhage	0	0	1

IV. DISEASES OF THE NOSE AND THROAT.

Adenoids	0	161	0
Adenoids and tonsils	0	705	0
Carcinoma of larynx	0	2	0
Atrophic rhinitis cum oxæna	0	1	0
Deviated septum	0	57	0
cum external deformity	0	18	0
Epistaxis	0	1	0
Carcinoma of œsophagus	0	1	0
Foreign body in larynx	0	1	0
Fracture of nose (old)	0	2	0
Gumma of soft palate	0	1	0
Hyperplastic middle turbinates	0	9	0
Laryngeal stenosis	0	2	0
Laryngeal stenosis (syphilitic)	0	1	0
Lupus of nose	0	1	0

	R.	B.	L.
Nasal fibroma	0	1	0
Nasal polypi	0	4	0
Peritonsillar abscess	2	0	3
Retropharyngeal abscess	0	2	0
Synechiæ of nose	0	1	0
Tonsillitis (follicular)	0	1	0
Ulceration nasal septum	0	1	0

V. DISEASES OF ACCESSORY SINUSES.

Pansinusitis	0	4	2
Frontal sinusitis (acuta)	3	0	6
Frontal sinusitis (chronica)	5	2	7
cum orbital abscess	1	0	0
Frontal mucocele	1	0	0
Sarcoma of frontal sinus	0	0	1
Disease of antrum of Highmore (chronic)	5	3	8
Disease of antrum of Highmore (acute)	4	1	2
Disease of ethmoidal sinuses:			
Ethmoiditis (acuta)	0	0	2
Ethmoiditis (chronica)	3	23	4
Sphenoiditis (chronica)	0	2	0
Malignant tumor of ethmoid	1	0	0
Myxo-sarcoma of ethmoid	0	0	1

VI. MISCELLANEOUS.

Carcinoma of orbit	1	0	0
Sarcoma of orbit	1	0	0
Cerebral syphilis	0	1	0
Cephalalgia	0	1	0
Carcinoma of mastoid and jaw	1	0	0
Erysipelas	0	1	0
Cleft palate	0	3	0
Fracture of jaw	1	0	0
Fracture of malar bone	1	0	0
Leukeplakia	0	1	0
Nævus of canal	0	0	1
No diagnosis	0	1	0
Orbital abscess	0	0	1
Post-operative facial paralysis	1	0	1
Post-operative hemorrhage (nose)	0	1	0
Salvarsan	0	14	0
Scar of face	0	1	0

	R.	B.	L.
Sterno-cleido-mastoid myositis	0	0	1
Tic-douloureux	0	1	0
Tinnitus	0	1	0
Tumor of parotid	0	1	0

AURAL OPERATIONS.

Part. Disease. Operation.	R.	B.	L.
1. Auricle.			
Abscess of lobe incised	2	0	0
Cyst excised	2	0	1
Othæmatoma incised	1	0	0
Perichondritis incised	1	0	3
Plastic	2	0	1
Growth removed	3	0	2
2. Meatus.			
Abscess incised	82	2	15
Circumscribed abscess incised	15	0	18
Foreign body removed	1	0	2
Exostosis removed	0	0	1
3. Tympanum.			
Drum membrane, paracentesis	390	93	340
Carious ossicles removed	7	0	2
Granulations removed	4	0	1
Polyp removed	27	0	12
4. Nose, Throat, and Pharynx.			
Abscess septum incised	0	1	0
Nasal spur removed	0	1	0
Turbinate removed	0	26	0
Polypus removed	0	16	0
Naso-pharynx, adenoids removed	0	201	0
Adenoids and tonsils removed	0	638	0
Adenoids, tonsils and turbinate removed	0	17	0
Adenoids and tonsils removed, ossiculectomy	0	1	0
Adenoids and tonsils, cervical glands incised	0	1	0
Adenoids and tonsils, cleft palate	0	1	0
Tonsils removed	0	28	0
Curettement of Eustachian tube	0	8	0

	R.	B.	L.
Submucous operations (spurs and septum)	0	95	0
Submucous operations (adenoids removed)	0	12	0
Submucous operations with skin graft	0	2	0
Submucous operations (exenteration of ethmoids)	0	8	0
Submucous operations (rib resection)	0	4	0
Cyst excised	0	1	0
Transplantation of cartilage	0	2	0
Plastic	0	1	0
Fibroma removed	0	1	0
Cleft palate	0	1	0
Synechia cut	0	2	0
Fracture of septum reduced	0	18	0
Frontal sinus	9	0	5
Frontal sinus and antrum	2	0	1
Killian operation	7	0	2
Exenteration of ethmoids	0	22	0
Laryngoscopy	0	7	0
Peritonsillar abscess incised	0	6	0
Antrum opened	0	22	0
Sarcoma frontal sinus removed	0	0	1
Exenteration of orbit and ethmoids (enucleation)	0	1	0
Dilatation of œsophagus	0	2	0

5. Mastoid Region.

Abscess, post-aural, incised	35	1	25
Cervical abscess incised	1	0	2
Cervical glands incised	3	0	1
Mastoid operations (acute)	95	4	96
Mastoid operations, adenoids removed	10	0	3
Mastoid operation with ligation of jugular	10	0	10
Mastoid operation with brain abscess	2	0	2
Radical mastoid operation	34	0	32
Mastoids operation, lumbar puncture, subtemporal decompression	4	0	6
Radical mastoid with skin graft	5	0	14
Skin graft	45	0	13
Plastic	1	0	1

Miscellaneous Operations.

Foreign body removed from bronchia	0	1	0
Tracheotomy, removal of growth of larynx	0	1	0
Lumbar puncture	0	2	0

	R.	B.	L.
Salvarsan	0	71	0
Pinna incised	1	0	0
Exploratory incision orbits	0	0	2
Resection of upper jaw, wiring fragments lower jaw	0	1	0
Resection of angular jaw (carcinoma)	0	1	0
Repair of fracture of malar bone	1	0	0
Thyroidectomy (carcinoma)	0	1	0
Retro-pharyngeal abscess incised	0	1	0
Amastomosis of hypoglossal and facial nerve	0	1	0
Alæ incised	0	1	0
Various operations	7	0	9

DISEASES OF OUT-PATIENTS.

I. DISEASES OF THE EXTERNAL EAR.

1. Auricle.

a. *Inflammations.*

	R.	B.	L.
Abscess	2	0	7
Abscess of lobe	3	0	6
Abscess of tragus	4	0	4
Pre-auricular abscess	5	0	6
Dermatitis	18	0	10
Eczema	57	18	29
Erysipelas	12	0	20
Intertrigo	7	0	9
Perichondritis	10	0	9
Impetigo	4	0	6
Lupus	1	0	0
Ulceration	4	0	2
Herpes	2	0	4
Pinna (abscess of)	1	0	0

b. *Deformities.*

Microtia	9	0	10
Microtia with atresia canal	2	0	4
Congenital fistula of auricle	1	0	1
Congential lop ears	0	4	0

c. *Neoplasms.*

Cyst of auricle	6	0	7
Cyst of lobe	4	0	5
Epithelioma	2	0	3
Papilloma	1	0	2
Carcinoma	1	0	2
Tumor	1	0	1
Noma	1	0	0

d. *Trauma.*

Congelatio	12	6	14
Othæmatoma	3	0	4
Lacerated wound	2	0	1
Hæmatoma	7	0	9

2. Meatus.

	R.	B.	L.
Cerumen	519	498	562
Atresia	0	4	2
Abscess	10	0	14
Eczema	35	19	41
Exostosis	6	0	9
Acute diffuse inflammation	52	0	42
Acute diffuse inflammation with cervical adenitis	1	0	1
Chronic diffuse inflammation	5	0	8
Acute circumscribed inflammation	187	4	139
Foreign body (animate)	16	4	21
Foreign body (inanimate)	18	7	29
Ulceration	1	0	1
New growth	0	0	1

II. DISEASES OF THE DRUM MEMBRANE.

Trauma direct	9	0	14
Trauma indirect	3	0	5
Myringitis	4	0	5

III. DISEASES OF THE MIDDLE EAR.

a. *Acute Secretory Catarrhal Inflammation.*

Mucous	229	192	206
With adenoids	191	126	116

b. *Chronic Secretory Catarrhal Inflammation.*

Mucous	419	502	346
With adenoids	211	406	271
With facial paralysis	1	0	1
With labyrinthine disease	5	0	3

c. *Adhesive Catarrhal Inflammation.*

Secretory	39	19	27
Secretory with labyrinthine disease	12	6	10

d. *Acute Inflammation.*

Simple	409	201	234
With adenoids	126	51	102
mastoiditis	74	4	42
facial paralysis	7	0	5
post-aural abscess	31	0	21
mastoid abscess	5	0	7

e. *Acute Suppurative Inflammation.*

	R.	B.	L.
Simple	429	216	272
With cervical abscess	5	0	7
erysipelas	5	0	4
circumscribed abscess	20	0	14
mastoiditis	141	18	189
mastoiditis and meningitis	2	0	3
mastoiditis and facial paralysis	2	0	4
mastoid fistula	3	0	4
post-aural abscess	45	0	59
facial paralysis	5	0	9
adenoids	107	42	91
facial paralysis and Bezold abscess	1	0	2
labyrinthine disease	2	0	1
sub-periosteal abscess	3	0	4
carious ossicles and tuberculosis	1	0	1

f. *Chronic Suppurative Inflammation.*

Simple	419	432	319
With atresia canal	1	0	0
mastoiditis	35	3	52
mastoiditis and meningitis	2	0	4
mastoiditis and cervical adenitis	5	0	4
mastoiditis and post-aural sinus	1	0	1
torticollis	3	0	2
caries of the ossicles	19	0	21
facial paralysis	7	0	5
polypus in the tympanum	63	2	59
granulations in the tympanum	41	1	39
post-aural abscess	5	0	4
adenoids	201	91	129
Effect of suppurative inflammation	129	96	76
labyrinthine disease	8	0	10
facial paralysis	1	0	1
adenoids	48	24	64

IV. NEUROSIS OF THE MIDDLE EAR.

Otalgia from teeth	62	0	41
pharynx	4	0	5

V. DISEASES OF THE LABYRINTH.

Labyrinthitis	31	11	26
Anæmia	4	0	1

	R.	B.	L.
Concussion	6	0	8
Hemorrhage	5	0	4
Trauma	1	0	2
Otosclerosis	19	7	14

MISCELLANEOUS.

Adenoids and tonsils	0	1114	0
Adenoids	0	402	0
Lingual tonsils	0	3	0
Tonsils	0	98	0
Hypertrophic rhinitis	0	76	0
Atrophic rhinitis	0	81	0
Purulent rhinitis	0	59	0
Vaso-motor rhinitis	0	18	0
Abscess (nose)	0	4	0
Peritonsillar abscess	0	29	0
Polyp (nose)	0	49	0
Spur (nose)	0	36	0
Foreign body (nose)	0	4	0
Deaf-mutism	0	11	0
Deflected septum	0	296	0
Deflected septum with external deformity	0	69	0
Frontal sinus (acute)	62	8	49
(chronic)	21	0	19
Frontal sinus and antrum (acute)	3	0	4
Frontal sinus (acute) with orbital abscess	2	0	3
Frontal sinus with chronic rhinitis and exophthalmic goitre	0	1	0
Ethmoiditis	0	72	0
Ethmoiditis with orbital abscess	0	3	0
Ethmoiditis with polyp	0	10	0
Sphenoiditis	0	7	0
Acute pharyngitis	0	31	0
Chronic pharyngitis	0	12	0
Fracture of nasal bones	0	18	0
Deflected septum with polyp and ethmoiditis	0	3	0
Sarcoma of frontal sinus	1	0	2
Sarcoma of larynx	0	1	0
Malignant growth antrum	1	0	1
Ethmoiditis and antrum	0	5	0
Facial paralysis	7	0	10
Pansinusitis	0	1	0
Disease of antrum of Highmore	1	0	1

	R.	B.	L.
Facial erysipelas	0	14	0
Papilloma larynx	0	6	0
Hæmatoma septum	0	4	0
Stenosis of glottis	0	2	0
Sarcoma (nose)	0	1	0
Cyst turbinate	0	2	0
Hypertrophy turbinate	0	142	0
Adenitis	32	0	39
Collapse ala	0	2	0
Tongue-tie	0	3	0
Sub-periosteal abscess	0	7	0
Abscess septum	0	6	0
Deformity (nose)	0	40	0
Lupus (auricle)	0	4	0
Trauma	0	6	0
Epistaxis	0	51	0
Eczema (nose)	0	10	0
Specific nose and throat	0	31	0
Cleft palate	0	6	0
Bifid uvula	0	4	0
Ulceration septum	0	9	0
Papilloma uvula	0	2	0
Ulceration tonsil	0	0	1
Specific pharnyx	0	12	0
Syphilis	0	29	0
Foreign body œsophagus	0	2	0
Carcinoma œsophagus	0	6	0
Stricture of œsophagus	0	5	0
Specific laryngitis	0	8	0
Specific labyrinthitis	0	19	0
Retro-pharyngeal abscess	0	16	0
Cyst tonsil	3	0	2
Œdema uvula	0	7	0
Chronic tonsillitis	0	39	0
Tumor (nose)	0	3	0
Leucoplakia	0	1	0
Myocarditis, arterio-sclerosis	0	4	0
Salpingitis (Eustachian)	0	38	0
Paralysis left recurrent laryngeal nerve, anreurism	0	2	0
Bronchial cleft abscess	0	1	0
Gumma soft palate	0	1	0
Black tongue	0	2	0
Cyst epiglottis	0	2	0
Tumor larynx	0	1	0

	R.	B.	L.
Papilloma vocal cord	0	1	0
New growth (nose)	0	1	0
Post-operative adhesions (throat)	0	4	0
New growth pharynx	0	1	0
Foreign body larynx	0	2	0
Fracture base of skull	0	2	0
Eloped	0	72	0
No diagnosis	0	139	0
Diagnosis deferred	0	78	0
No ear disease	0	140	0
Unfit patients	0	85	0

DONATIONS IN 1914.

The Managers desire to acknowledge the receipt of the following donations in 1914:—

Victrola records, from Mr. Herbert M. Sears.

Surgical and optical instruments, from Dr. Oliver A. Wadsworth.

Books and magazines, from Dr. and Mrs. D. Harold Walker.

Books and magazines, from Mrs. Maxwell.

Books, from Mrs. Francis Drake.

Books, from Miss Marguerite Welch.

Magazines, from Mr. W. L. Currier.

Children's clothing, from the Needlework Guild, Jamaica Plain Branch.

Knit bandages, from Mrs. J. A. King.

Knit bandages, from Miss Peterson.

Knit bandages, Anonymous.

Ear trumpet, from Mrs. Post.

Spectacles and eyeglasses, from Miss Mary Denny.

Spectacles and eyeglasses, from Mrs. W. P. Longfellow.

Spectacles and eyeglasses, from A Friend.

Flowers, from the Flower Mission.

Flowers, from the Rev. E. F. McLeod.

Candy and Easter eggs, from Childs, Sleeper & Co.

One dollar, from Mr. Roscoe Jacobs.

Ten dollars, for patients' Christmas tree, from Mr. Frank A. Day.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:—

Mr. Augustus Hemenway, Mr. George P. Gardner, Mr.

Henry Parkman, Mr. William D. Sohier, Mr. Robert Homans, Mr. William S. Spaulding, Dr. George B. Shattuck, Mr. William C. Endicott, Mr. Russell G. Fessenden, Mr. Herbert M. Sears, Mr. Charles P. Curtis, Mr. Robert H. Stevenson, Jr., Mr. John Lawrence, Mrs. Charles P. Curtis, Mr. Harvey Clap, Childs, Sleeper & Co., and Marshall Johnson Co.

POST-GRADUATE TRAINING SCHOOL FOR NURSES.

The Massachusetts Charitable Eye and Ear Infirmary is a special hospital with a capacity of two hundred and fifteen beds and a large out-patient department.

Graduates of any general hospital training school furnishing proper references will be admitted. The course covers a period of five months, three months of which consist of practical work in the wards, operating, sterilizing, dressing, and X-ray rooms.

During the last two months of the course the nurses will be given an opportunity to do Social Service Work under the direction of the Social Service Department and to take active part in much of the practical details in the hospital and outside.

Lectures will be given by the Visiting Staff, the House Surgeons, and the Superintendent of Nurses.

To those desiring it, practical instruction in the details of Hospital Management will be given.

Nurses completing the course and passing a satisfactory examination will receive a diploma of the school. It is possible for a limited number of nurses after completing the regular course to arrange for a longer period of instruction in any one branch of the work. There is frequent opportunity for well-equipped nurses to obtain permanent salaried positions in some department of the institution or elsewhere. The remuneration for the entire course is $72. Living accommodations are in a new Nurses' Home, situated on the Charles River Parkway.

Application blanks and additional information furnished on request.

Address all communications to the Superintendent of the Infirmary.

FORM OF A BEQUEST

TO THE

INFIRMARY.

I give and bequeath to the MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY of Boston the sum of dollars, to be applied to the uses of said Infirmary.

Ninetieth Annual Report

of the

Massachusetts Charitable Eye and Ear Infirmary

For the Year

1915

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.

THE MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY

233 CHARLES STREET, COR. FRUIT STREET, BOSTON

OUT-PATIENT DEPARTMENT

The Out-Patient Department and Dispensary is open daily, except Sundays and legal holidays, from 8.30 to 10.30 A. M., for the examination and treatment of all poor persons affected with diseases of the eye or ear. Persons needing treatment in the hospital wards will be advised accordingly. Medicines and glasses are furnished at the Infirmary, but no prescription or advice will be sent by mail, express or messenger. Out-patients will be charged ten cents for each visit.

HOSPITAL

Persons recommended for admission to the hospital wards must apply at the Superintendent's office between 10 and 11 A. M. and 2 and 3 P. M. *on week days only.*

Accident and emergency cases admitted at any time.

All communications in regard to the Infirmary or in regard to any inmate must be addressed to the *Superintendent.*

Persons admitted to the wards as in-patients will be charged for board at the rate of ten dollars per week, three weeks payable in advance, unless some special arrangement is made by the Superintendent.

Less than ten dollars per week may be accepted in such cases as shall be considered proper.

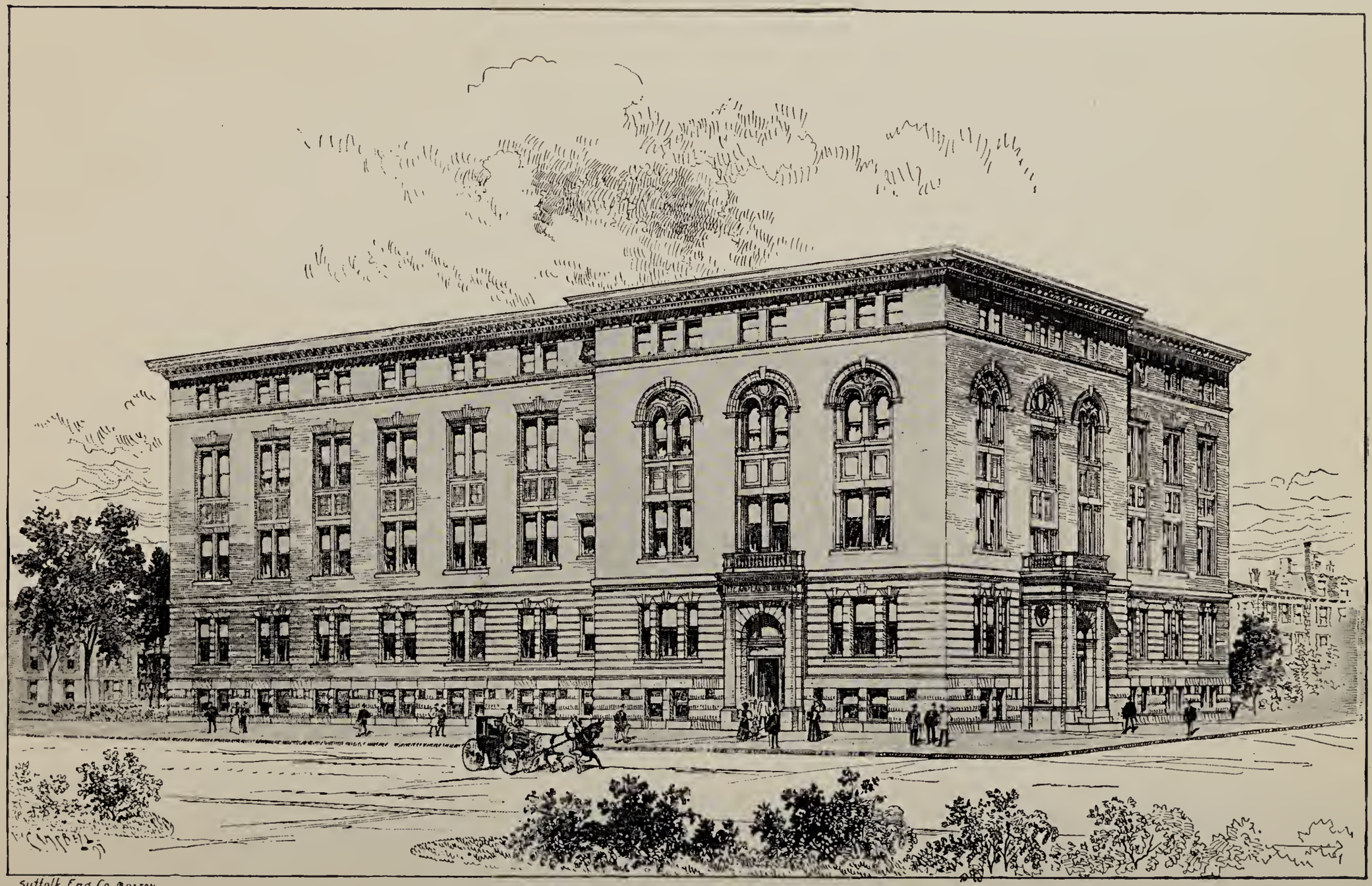
Poor citizens of Massachusetts may be admitted to free beds.

Visitors will be admitted to see patients daily from 2 to 3 P. M. Only one visitor allowed to each patient. Children can be visited on Sundays only.

The abuse of the privileges of the Infirmary by a large and increasing class of the community makes it necessary to call special attention to the fact that the Massachusetts Charitable Eye and Ear Infirmary is designed wholly for the **poor and needy** and **under no circumstances** for those who are not proper subjects for charitable treatment.

The Infirmary reserves the right to investigate any case.

MEDICAL—SOCIAL SERVICE DEPT.
MASSACHUSETTS EYE & EAR INFIRMARY
243 CHARLES ST., BOSTON, MASS.



MAIN BUILDING. MARCH, 1899

Ninetieth Annual Report

of the

Massachusetts Charitable Eye and Ear Infirmary

For the Year
1915

Cambridge
The University Press
1916

Officers of the Massachusetts Charitable Eye and Ear Infirmary

Board of Managers, 1915–1916

George P. Gardner
Feb. 1, 1887

Henry Parkman
May 2, 1893

William D. Sohier[1]
Jan. 7, 1896

Robert Homans
May 1, 1900

William S. Spaulding
Feb. 4, 1902

Dr. George B. Shattuck
Oct. 30, 1902

William C. Endicott
Feb. 3, 1903

Russell G. Fessenden
Feb. 3, 1903

Herbert M. Sears
Dec. 20, 1905

Charles P. Curtis
Feb. 5, 1907

Robert H. Stevenson, Jr.
Feb. 5, 1907

John Lawrence[1]
Feb. 5, 1907

James Dean
June 12, 1914

James C. Howe
June 12, 1914

President

DR. GEORGE B. SHATTUCK

Secretary

Robert Homans, 1035 Exchange Building, 53 State Street, Boston

Treasurer

Henry Parkman, 53 State Street, Boston

Executive Committee

George P. Gardner — Herbert M. Sears

John Lawrence

Finance Committee

Russell G. Fessenden — William S. Spaulding

James Dean

[1] Appointed by the Commonwealth.

Visiting Committee

January	Mr. Howe	July	Mr. Parkman
	Mr. Sears		Mr. Stevenson
February	Mr. Sears	August	Mr. Stevenson
	Dr. Shattuck		Mr. Homans
March	Dr. Shattuck	September	Mr. Homans
	Mr. Spaulding		Mr. Curtis
April	Mr. Spaulding	October	Mr. Curtis
	Mr. Fessenden		Mr. Endicott
May	Mr. Fessenden	November	Mr. Endicott
	Mr. Dean		Mr. Gardner
June	Mr. Dean	December	Mr. Gardner
	Mr. Parkman		Mr. Howe

Ladies' Visiting Committee

Mrs. Reginald Foster	Miss Theresa L. Merriam
Mrs. Thomas Pelham Curtis	Miss Elizabeth B. Fay
Mrs. John L. Bremer	Miss Alice Fay
Mrs. George Cabot Lodge	Miss Eleanor C. Bancroft
Mrs. Harold Peabody	Miss E. Hope Bancroft
Mrs. Robert S. Russell	Miss Mary Vaughan

Executive Officers

Superintendent

FREDERIC A. WASHBURN, M.D.

Assistant Superintendent

Charles E. Wells, M.D.

Surgical Board

Consulting Ophthalmic Surgeons

H. Beckles Chandler, M.D. — Henry W. Bradford, M.D.
Myles Standish, M.D. — B. Joy Jeffries, M.D.
Edwin E. Jack, M.D. — Frederick E. Cheney, M.D.
Henry H. Haskell, M.D.

Consulting Aural Surgeons

J. Orne Green, M.D. — Clarence J. Blake, M.D.
Edward M. Plummer, M.D.

OFFICERS OF THE INSTITUTION

Ophthalmic Chiefs of Service

ALEXANDER QUACKENBOSS, M.D. ————————

Aural Chiefs of Service

FREDERICK L. JACK, M.D. EUGENE A. CROCKETT, M.D.

Ophthalmic Surgeons

FRED M. SPALDING, M.D. FREDERICK H. VERHOEFF, M.D.
A. GARDNER MORSE, M.D. PETER H. THOMPSON, M.D.
GEORGE S. DERBY, M.D.

Aural Surgeons

PHILIP HAMMOND, M.D. HARRIS P. MOSHER, M.D.
D. HAROLD WALKER, M.D. WILLIAM F. KNOWLES, M.D.

Assistant Ophthalmic Surgeons

CHARLES D. JONES, M.D. EDWARD K. ELLIS, M.D.
SAMUEL J. MCDONALD, M.D. P. SOMERS SMYTH, M.D.
W. HOLBROOK LOWELL, M.D. WILLIAM N. SOUTER, M.D.
GEORGE H. RYDER, M.D. WALTER B. LANCASTER, M.D.

Assistant Aural Surgeons

GEORGE H. POWERS, JR. M.D. CALVIN B. FAUNCE, JR. M.D.
GEORGE L. TOBEY, JR. M.D. FREDERICK L. BOGAN, M.D.
FRANCIS P. EMERSON, M.D. DANA W. DRURY, M.D.
LEON E. WHITE, M.D. JOHN H. BLODGETT, M.D.

Ophthalmic Clinical Assistants

RALPH A. HATCH, M.D. EDWARD M. MURPHY, M.D.
HENRY HAWKINS, M.D. WILLIAM LIEBMAN, M.D.
HENRY G. CARROLL, M.D. ROLAND C. MACKENZIE, M.D.
HAROLD B. CHANDLER, M.D.

Aural Clinical Assistants

JOHN L. LOUGEE, M.D. HARRY P. CAHILL, M.D.
D. CAMPBELL SMYTH, M.D. WALTER H. YOUNG, M.D.
OLIVER A. LOTHROP, M.D. IRVING SOBOTKY, M.D.
ROBERT J. KISSOCK, M.D. EDWARDS W. HERMAN, M.D.
FRANKLIN CAMPBELL, M.D. GEORGE H. POIRIER, M.D.
WILLIAM J. HARKINS, M.D. HAROLD G. TOBEY, M.D.

Pathologist

FREDERICK H. VERHOEFF, M.D.

Consulting Neurologists to Infirmary

WALTER E. PAUL, M.D. JAMES B. AYER, M.D.

MASSACHUSETTS CHARITABLE EYE AND EAR INFIRMARY

Consulting Surgeons

SAMUEL J. MIXTER, M.D. LINCOLN DAVIS, M.D.

Consulting Physicians

THEODORE J. EASTMAN, M.D. CHARLES W. TOWNSEND, M.D.
GERALD BLAKE, M.D.

Physician to Children

FRITZ B. TALBOT, M.D.

Assistant Physician to Children

RICHARD M. SMITH, M.D.

Assistants in the Care of Children

J. HERBERT YOUNG, M.D. RICHARD S. EUSTIS, M.D.
LOUIS W. GILBERT, M.D. JOHN W. HAMMOND, M.D.

Consulting Anæsthetist

ARTHUR M. DODGE, M.D.

Roentgenologist

WILLIAM LIEBMAN, M.D.

Refractionists

ROLAND C. MACKENZIE, M.D. HAROLD B. CHANDLER, M.D.

House Staff

Ophthalmic House Surgeons

ARMAND A. HALLIDAY, M.D. FRANK J. MCCABE, M.D.
FREDERICK A. AYLESWORTH, M.D.

Aural House Surgeons

CHARLES T. PORTER, M.D. FREDERICK T. HILL, M.D.
IZAAK ALCUZAR, M.D.

Superintendent of Nurses

MARY COONAHAN, R.N.

Chief of Infirmary Social Service

IDA M. CANNON

Report of the Board of Managers

THE Massachusetts Charitable Eye and Ear Infirmary was incorporated by a Special Act of the Legislature on Feb. 23, 1827. Since that time an enormous amount of charitable work has been done. The Infirmary is the second oldest hospital in New England. It has a capacity of 174 beds in the wards; an Out-Patient Department; a Special Building containing 40 beds for the treatment of contagious ophthalmia, and of contagious diseases developed in the wards of the Infirmary; a Pathological Laboratory; and a Nurses' Home, which make the Infirmary the largest hospital in the world for the treatment of diseases of the eye and ear.

During the past year, as is shown in the Report of the Superintendent,[1] the total number of patients admitted to the wards of the Hospital and treated in the Out-Patient Department was 71,272.

HOUSE PATIENTS				
Ophthalmic wards			1,794	
Aural wards			1,852	
Total number treated				3,646
OUT-PATIENT DEPARTMENT				
New Patients				
Ophthalmic				
Males	9,940			
Females	8,749	18,689		
Aural				
Males	4,887			
Females	4,950	9,837	28,526	
Old Patients				
Ophthalmic	20,611			
Aural	18,489		39,100	67,626
				71,272

[1] Dr. Frederic A. Washburn succeeded Dr. Farrar Cobb as Superintendent of the Infirmary on January 1, 1915, so that his report covers three months for which Dr. Cobb is responsible, and nine months for which he is responsible.

Of the House Patients 2,175 were males, 1,471 were females; of whom 1,472 were children under fourteen years of age. Daily average of patients was 158, total number of days' board furnished 57,089 (31,204 paid something; 25,885 free).

Of the Out-Patients (new) 12,794 came from Boston, 15,482 from Massachusetts outside of Boston, 233 from other New England States (the largest number from the State of New Hampshire), 7 from other States and 10 from foreign countries.

In the Out-Patient Department changes have been made so that the admitting desk can be placed near the entrance for the patients, and the Social Service Department quarters have also been rearranged. New dark rooms have been built. Most of the wards and rooms on the two upper floors of the Infirmary have been painted, which work will be continued throughout the building. A new linen room has been equipped, a steam press has been installed and sundry other minor improvements have been made.

Gardner Building

The Gardner Building has been of untold benefit, for therein work in the prevention of blindness is accomplished the value of which cannot be estimated. The cases herein treated were 185. Twenty-one of these cases were transferred from the Infirmary owing to infectious diseases which developed in the general wards.

An Endowment Fund is needed to pay the running expenses of this building, in which case more children threatened with blindness could be treated. This is the most expensive part of the Infirmary to run, owing to the difficult and dangerous problems which are inseparable from the class of work done. A generous contribution of $5000 was made by a friend of the Infirmary in 1912 towards this worthy cause.

Various improvements have been made. The main passage from the Infirmary to this building has been changed so that it no longer goes directly by the foot of the stairs. These stairs

are now closed off by a partition and door so that the wards are much quieter. On the second floor of the building several partitions have been torn down, thus converting rooms into an open ward, giving better light and air. A ventilated, fire-proof garbage room has also been built just outside the building.

Pathological Laboratory

The pathological specimens accumulated during the last fifteen years now form a very complete collection of pathological specimens of the eye. A new fixing fluid to prepare eyes for microscopic examination has been perfected which thus far has given results superior to those obtained with any other fluid previously used.

Post-Graduate Training School for Nurses

Twenty years ago the Board of Managers established a Post-Graduate Training School for Nurses. Its object was to train a group of women in the care of the eye, ear, nose and throat in such manner that it might become a great factor in saving sight and hearing. Students have come from all countries and after graduating have taken positions, giving the benefit of their knowledge far away from the Infirmary. Up to the present year there have been 360 graduates. Lectures, courses and demonstrations are given to the students, and special instruction is also given in the operating rooms in preparing infants' food and in Social Service work. Certain students from the Massachusetts General Hospital have, during the past year, taken a sixty days' course, and it is hoped that an arrangement can be made so that students from other representative schools may profit by the courses given.

In the Nurses' Home a considerable amount of painting has been done, and a tennis court has been built on the grounds for the use of the house officers and nurses.

Ladies' Visiting Committee

During the year a Ladies' Visiting Committee, of which Mrs. Robert Shaw Russell is Chairman, was authorized by the Board of Managers. These ladies take turns in visiting the Infirmary and the patients who are at a distance from their homes who would not otherwise have visitors. They have given the Infirmary money for the salary of a Special Worker, who will visit patients within the wards and plan for their occupation and amusement. She acts as an Agent of this Committee in showing them which patients can best be assisted by them. This Committee has done its work well and has been very generous in many ways.

Visiting Staff

During the year we have taken an important step in the better care of children by appointing on the Visiting Staff of the Infirmary the members of the Children's Medical Department of the Massachusetts General Hospital, who make daily visits and attend to the physical condition of the children other than eye and ear ailments. This present organization seems to be working successfully, and patients receive careful and needed attention.

Social Service Department

In common with other departments of the Infirmary, this Department has been undergoing radical changes in order to bring about more effective work between the Infirmary and the Massachusetts General Hospital. In June the Chief of the Social Service Department of the Massachusetts General Hospital was made Chief of Social Service of the Infirmary, an arrangement which has proved of advantage in placing the social resources of the two institutions at the service of many

patients who need the special medical and social services of both.

The Social Service work, as will be seen from the following figures, needs an Endowment Fund. In 1912, through the generosity of a friend of the Infirmary, $5000 was given towards this end.

RECEIPTS

Income from Sears fund	$960.00
Gifts	705.00
Transferred from income	3,536.08
Total expenses	$5,201.08

Maintenance

The expenses and responsibilities of a hospital must each year increase rather than decrease, in order to carry on the work as the Board of Managers feel it should be done. Yearly contributions or gifts towards any special branch of the work of the Infirmary which happens to appeal to an individual are earnestly solicited.

The new building, completed in 1899, enabled the Managers to take care of a greater number of patients, but every year (with the exception of one) since that time there has been a deficit, varying from two to twenty-three thousand dollars, due in part to the Social Service work of the Infirmary. During the past year the deficit has been greatly reduced. Deficits however cannot go on indefinitely.

Under our new Superintendent radical changes have been made in the administrative work of the Infirmary. In the future the Managers look forward to improved conditions.

The total cost of maintenance of the Hospital proper, Out-Patient Department, Gardner Building for Contagious Diseases, Pathological Laboratory, X-Ray Department and Nurses Home was $142,451.68.

The cost per week per house patient was $17.46.

The cost of subsistence per inmate per day was 23 cents.

The Board of Managers desires to acknowledge with thanks the following Bequests and Gifts received during the past year:

BEQUESTS

Harriet Otis Cruft estate	$10,000	
William B. Hills estate	10,000	
Sarah E. Pratt estate	1,000	
Horace W. Wadleigh estate	1,000	$22,000

GIFTS

*Anonymous	$1	
Mrs. Peter C. Brooks	100	
Mrs. Elizabeth R. Burr	10	
*Mrs. C. P. Curtis	50	
Mr. R. G. Fessenden	25	
Mrs. Harriet S. Hazeltine	10	
Mrs. W. C. Loring	10	
Mr. Arthur T. Lyman	200	
Mr. F. S. Moseley	50	
*Out-Patient	2	
*Mrs. R. S. Russell	50	
Mr. Herbert M. Sears	100	
Mr. W. S. Spaulding	100	
Mrs. Elizabeth S. Warren	100	
†*For Special Social Service Work* from Mrs. C. P. Curtis and Mrs. R. S. Russell	1,000	$1,808

Books and Magazines from Mrs. W. L. Currier, Dr. W. F. Knowles, Mrs. Robert S. Russell, Dr. and Mrs. D. Harold Walker.

Flowers from Miss Dorothy Black, Miss Alice Fay, Dr. Ferguson, Miss Theresa L. Merriam.

Children's Clothing from Needlework Guild, Jamaica Plain.

Sewing from Needlework Guild, Emmanuel Church.

Knit Bandages from Mr. J. A. King, Mrs. Charles Wells.

Through the kindness and generosity of the following persons we were enabled to have a large Christmas tree, with presents for over two hundred patients and employees:

Mr. Charles P. Curtis
Mr. William C. Endicott
Mr. Russell G. Fessenden
Mr. George P. Gardner
Mr. Robert H. Stevenson, Jr.
Mr. Harvey Clap
Childs, Sleeper & Co.
Mr. S. D. Foss

* Received by Superintendent for special purposes.
† Received by Treasurer after end of 1915 fiscal year.

Mr. Augustus Hemenway
Mr. John Lawrence
Mr. Robert Homans
Mr. Henry Parkman
Mr. Herbert M. Sears
Dr. George B. Shattuck
Mr. William D. Sohier
Mr. William S. Spaulding
Dr. F. T. Hill
Mr. H. Louden
Miss Alma Luce
Marshall, Johnson & Co.
Naval Brigade Band
Miss Nazarin
Mr. J. C. McKenzie

WILLIAM C. ENDICOTT,
JAMES C. HOWE,
JAMES DEAN,
Committee of the Board of Managers.

Report of the Treasurer

Income, Receipts, and Disbursements

For the Year Ending September 30, 1915

Income

Receipts:

Income from investments		$26,666.74
Appropriation from the State		45,000.00
Income from trustees E. V. Ashton estate		1,950.00
Income from estate of Robert B. Brigham		1,000.00
Interest on bank deposits		464.71
Rebate — State Treasurer		109.14
Gifts		705.00
From Superintendent, as per his report:		
Board of patients	$18,401.16	
Out-patient visits	6,254.50	
Medicines	8,946.96	
Optical Department	14,997.34	
Sundry donations "Christmas"	103.93	
Sundries	4,540.00	53,243.89
Excess of payments		12,162.42
		$141,301.90

Expenditures:

Running expenses of hospital per account of Superintendent		$136,053.86
Additional expenses per account of Treasurer:		
Insurance, auditing, etc.		1,006.96
Gifts to Social Service	$705.00	
Transfer to Social Service work	3,536.08	4,241.08
		$141,301.90

Social Service Work

Receipts:

Income from Sears fund	$960.00	
Gifts	705.00	
Transfer from income account	3,536.08	
Receipts		$5,201.08

Expenditures:

Wages	$4,717.12	
Stationery, printing, etc.	143.83	
Street-car and railroad fares	165.86	
Postage stamps and sundries	50.74	
Telephone	123.53	
		$5,201.08

Investments

Railroad Bond

Book Value		*Par Value*
$8,785.78	Atchison, Topeka & Santa Fe Ry. Gen. Mtge. 4% / Atchison, Topeka & Santa Fe Ry. Adjustment 4%	$11,500.00
4,545.40	Atchison, Topeka & Santa Fe Ry. Convertible 4%	5,000.00
9,925.00	Boston & Albany R. R. Improvement 4%	10,000.00
2,000.00	Burlington & Missouri River R. R. Nebraska 6%	2,000.00
10,637.50	Chicago, Milwaukee & St. Paul R. R. 6%	10,000.00
10,287.50	Chicago, Burlington & Quincy R. R. Ills. Div. 4%	10,000.00
5,244.00	Cincinnati, Indianapolis, St. Louis & Chicago 6%	5,000.00
24,900.00	Chicago Junction Rys. & Union Stock Yards Mortgage 4%	25,000.00
10,400.00	Chesapeake & Ohio General Mortgage 4½%	10,000.00
10,500.00	Chicago City Ry. 5%	10,000.00
10,675.00	Fitchburg R. R. 4%	10,000.00
10,000.00	Iowa Falls & Sioux City 7%	10,000.00
4,502.50	Kansas City, Clinton & Springfield 5%	5,000.00
9,095.00	Kansas City, Memphis & Birmingham 4% / Kansas City, Memphis & Birmingham 5%	13,500.00
10,008.50	Kansas City, Memphis Ry. & Bridge Co. 5%	10,000.00
24,012.50	Long Island R. R. 4%	25,000.00
8,100.00	Michigan Cent. R. R. 3½%	10,000.00
13,776.70	New York Central & Hudson River R. R. 3½%	15,000.00
4,736.25	Northern Pacific-Great Northern R. R. 4%	10,000.00
9,450.00	Oregon Short Line 4%	10,000.00
13,482.65	Pennsylvania R. R. 3½%	15,000.00
10,000.00	St. Johnsbury & Lake Champlain 5%	10,000.00
$225,064.28		$242,000.00

Miscellaneous Bonds

Book Value		*Par Value*
$4,712.50	American Agricultural Chemical Co. 5%	$5,000.00
19,271.53	American Tel. & Tel. Coll. Tr. 4%	21,000.00
4,792.80	American Tel. & Tel. Conv. 4½%	4,800.00
8,000.00	Butte Electric & Power Co. 5%	8,000.00
9,550.00	California Gas & Electric Corporation 5%	10,000.00
14,700.00	Detroit Edison Co. 5%	15,000.00
$61,026.83	*Amounts carried forward*	$63,800.00

Book Value		*Par Value*
$61,026.83	*Amounts brought forward*	$63,800.00
4,582.64	Edison Electric Co. of Los Angeles 5%	5,000.00
9,850.00	Georgia Ry. & Electric Co. 5%	10,000.00
6,965.00	Louisville & Jeffersonville Bridge Co. 4%	7,000.00
6,700.00	Mass. Hospital Life Ins. Co.	6,700.00
4,930.00	Mass. Elec. Co. 5%	5,000.00
15,000.00	New Eng. Tel. & Tel. 5%	15,000.00
5,425.00	New York City 4½%	5,000.00
10,428.61	New York City 4%	10,000.00
3,000.00	Savannah Electric Co. 5%	3,000.00
9,800.00	Southern California Edison Co. 5%	10,000.00
10,600.00	Seattle Electric Co. 5%	10,000.00
5,100.00	State of Massachusetts 3%	5,000.00
14,693.75	United States Steel Corp. 5%	15,000.00
10,150.00	Tacoma Ry. & Power Co. 5%	10,000.00
4,975.00	United Electric Securities Co. 5%	5,000.00
9,850.00	United Fruit Co. 6%	10,000.00
$193,046.83		$195,500.00

Railroad Stocks

No. of Shares		*Book Value*
135	Atchison, Topeka & Santa Fe Ry. Preferred	$10,792.66
16	Boston & Maine R. R. Common	840.00
2	Boston & Providence R. R.	510.00
100	Chicago Junction Rys. & Union Stock Yards Preferred	11,907.50
25	Concord & Montreal R. R.	1,346.25
62	Chicago & Northwestern R. R. Common	7,981.25
21	Fitchburg R. R. Preferred	2,063.13
20	Manchester & Lawrence R. R.	1,830.00
100	Manhattan Railway	14,187.50
50	New York Central & Hudson River R. R.	5,881.25
15	Northern R. R.	1,215.00
4	New York, New Haven & Hartford R. R.	315.50
100	Union Pacific R. R. Preferred	8,156.25
5	Vermont & Mass. R. R.	410.00
		$67,436.29

Real Estate

No. of Shares		*Book Value*
10	Boston Real Estate Trust	$10,260.75
15	Boston Ground Rent Trust	1,500.00
5	Providence Building Trust	500.00
2	Devonshire Building Trust	200.00
5	Warren Chambers Trust	500.00
		$12,960.75

Miscellaneous Stocks

No. of Shares		*Book Value*
246	American Tel. & Tel. Co.	$30,286.62
100	American Sugar Refining Co. Preferred	11,680.75
250	Ballard Vale Mills Preferred	25,000.00
3	Edison Electric Illuminating Co.	781.50
58	Mass. Elec. Preferred	5,000.00
3	N. E. Tel. & Tel.	399.75
9	Boston Personal Property Trust	990.00
104	West End St. Ry. Common	7,518.70
8	Western Union Tel. Co.	504.00
3	Walter Baker Co., Ltd.	1,200.00
		$83,633.32

Summary

Stocks and Bonds: Investments (book value)	$584,091.47
New Infirmary	347,400.44
Nurses' Home, land and building	204,205.27
Laboratory	11,735.91
Cash on hand and in Superintendent's hands	29,356.76
	$1,176,798.85

Liabilities

Capital, including various funds and legacies	$1,176,798.85

Report of the Superintendent

To the Board of Managers.

Gentlemen: — I have the honor to submit to you, herewith, my first Annual Report, as Superintendent of the Massachusetts Charitable Eye and Ear Infirmary. I succeeded Dr. Farrar Cobb on January 1, 1915, so this report covers three months for which Dr. Cobb is responsible and nine months of my own.

The noteworthy events of the year are: —

1st. The appointment of the Ladies' Visiting Committee.

The intimate association of these ladies with the affairs of the Infirmary promises to be of great assistance to us. As the organization has not yet completed its membership and the ranks are not entirely filled, no attempt will be made to make a report of their work this year. It is sufficient to say that these ladies have already shown their interest and enthusiasm by providing the salary of a social worker for the wards of the hospital.

2nd. The appointment of the members of the Staff of the Children's Medical Department of the Massachusetts General Hospital as a Staff for the Infirmary for the care of children.

This will make it possible for us to improve our work in the feeding of infants and in caring for the health of the children, aside from the special diseases for which they come to the Infirmary.

Attention is invited to the tables of statistics which follow, and the appended reports of the Superintendent of Nurses and Chief of the Social Service.

I wish to thank your Board for the courtesy and consideration with which you have welcomed me as your Superintendent, and to express my appreciation of the satisfactory services of officers, nurses and employees.

Statistics of House Patients

The total number of patients treated in the wards was 3,646.

Of the 3,646 house patients, 2,175 were males and 1,471 were females.

Number of patients treated in ophthalmic wards	1,794
Number of patients treated in aural wards	1,852

Of this number 206 were treated in the Gardner Building for contagious diseases; 146 of these were infants under one and one-half years. A report on the special work in the Gardner Building follows. The daily average number of patients treated in this building was 17.

Of the total number of patients treated in the wards, 1,472 were children under fourteen years of age.

The daily average number of patients treated in the wards was 158.

The largest number of house patients treated on any one day was 193; the smallest number, 123.

Number of free patients	966
Number of patients admitted at $35 per week	5
Number of patients admitted at $21 per week	1
Number of patients admitted at $20 per week	1
Number of patients admitted at $15 per week	101
Number of patients admitted at $10 per week	988
Number of patients admitted at less than $10 per week	1,422
Patients remaining in wards Sept. 30, 1915	162

The large number of patients who apparently pay $7 and $10 a week is caused by the many admitted for one or two days for minor operations.

The average stay per patient in the hospital under treatment was 15 days.

57,089 days' board was furnished to patients. For 31,204 days' board something was paid, and 25,885 days' board were free.

Residences of House Patients

Boston	1,366	Connecticut	1
Massachusetts (excepting Boston)	2,179	Other States	2
Maine	16	Canada	1
New Hampshire	57	Other countries	6
Vermont	7	Total	3,646
Rhode Island	11		

Occupations of House Patients

Males, Ophthalmic

Agents	12	Painters & glaziers	32
Bakers	1	Pedlers	18
Barbers	5	Plumbers	6
Blacksmiths	14	Porters	2
Carpenters	53	Printers	3
Chauffeurs	15	Railroad employees	18
Clerks	40	Salesmen	4
Coachmen	16	Seamen & fishermen	2
Cooks	2	Shippers	6
Electricians	10	Shoemakers	15
Engineers	13	Students	21
Farmers	39	Stonecutters	10
Firemen	19	Storekeepers	3
Janitors	1	Tailors	2
Laborers	203	Teamsters	39
Machinists	46	Waiters	8
Masons	28	Unclassified	28
Metal workers & moulders	14	Minors	346
Mill & factory operatives	79		
Nurses	4	Total	1,177

Males, Aural

Agents	3	Gardeners	2
Bakers and cooks	12	Hospital attendants	3
Barbers	9	Janitors	20
Blacksmiths	13	Laborers	78
Bookbinders	5	Laundrymen	6
Carpenters & woodworkers	32	Machinists	40
Chauffeurs	18	Masons	30
Clerks	24	Metal workers & moulders	29
Electricians	10	Teamsters	33
Engineers	16	Minors	576
Farmers	17		
Firemen	22	Total	998

Females, Ophthalmic

Bookkeepers	3	Salesmen	14
Clerks	6	Stenographers	2
Cooks	16	Teachers	6
Domestics	7	Telephone operators	9
Dressmakers	10	Waitresses	27
Housewives	255	Minors	222
Mill & factory operatives	34		
Nurses	6	Total	617

Females, Aural

Bookkeepers	3	Saleswomen	13
Clerks	24	Students	20
Cooks	13	Telephone operators	3
Domestics	2	Waitresses	30
Dressmakers	21	Minors	486
Housewives	180	Total	854
Mill & factory operatives	41		
Nurses	18		

Condition of House Patients at Discharge

533 were well.
2,658 were relieved.
186 were not relieved.
38 left against advice.
26 were not treated.
45 died.
22 were transferred to other hospitals for other diseases.
138 remaining in hospital Sept. 30, 1915.

Number of Operations

In the Ophthalmic Departments there were 1,035 operations performed in the house, and 1,886 in the Out-Patient Department.

In the Aural Departments there were 1,503 operations performed in the house, and 1,145 in the Out-Patient Department.

Out-Patient Department

New Patients treated: —		
Ophthalmic: Males	9,940	
Females	8,749	18,689
Aural: Males	4,887	
Females	4,950	9,837
Total		28,526
Old Patients treated: —		
Ophthalmic	20,611	
Aural	18,489	39,100
Total visits in Out-Patient Department		67,626

Residences of Out-Patients

Boston	12,794	Connecticut	14
Massachusetts	15,482	Other States	7
Maine	39	Canada	8
New Hampshire	104	Other countries	2
Vermont	52		
Rhode Island	24	Total	28,526

Occupations of Out-Patients

Actors	3	Draughtsmen	21
Agents	45	Electricians	210
Barbers	60	Engineers	190
Bakers	90	Engravers	92
Blacksmiths	160	Farmers	291
Bookbinders	210	Firemen	117
Bookkeepers	220	Fishermen	107
Butchers	116	Housewives	3,009
Carpenters	540	Hotel keepers	220
Chauffeurs	75	Laborers	2,767
Clergymen	10	Lawyers	3
Clerks	800	Machinists	600
Coachmen & hostlers	115	Masons	91
Compositors & printers	195	Messengers	72
Cooks	73	Mill & factory employees	3,300
Domestics	762	Milliners	109

Moulders & iron workers	95	Soldiers	40
Musicians	112	Stenographers	311
Nurses	119	Stonecutters	362
Painters	481	Storekeepers	285
Pedlers	500	Students	150
Pensioners	100	Tailors	850
Photographers	16	Teachers	75
Physicians and dentists	9	Teamsters	400
Plumbers	197	Telephone operators	320
Policemen & letter carriers	170	Waiters	110
Porters	200	Unclassified	760
Railroad employees	315	Minors	6,560
Seamstresses	800		
Shoemakers	616	Total	28,626

Comparative Financial Statements

For the Fiscal Years 1914 and 1915

OPERATING EXPENSES	1915	1914
SALARIES AND WAGES		
Officers and Clerks	$7,854.71	$8,602.96
Telephone Operators	621.43	587.38
Out-Patient Dept. Clerks	2,490.48	2,605.00
Social Service Workers	4,717.12	4,002.52
Druggists	1,997.17	2,385.50
Opticians	996.53	.....
Refractionists	1,149.84	1,000.00
Supt. of Nurses and Assistants	2,280.00	2,280.00
Head Nurses and Assistants	6,740.28	7,230.53
Post-Graduate Nurses	1,088.16	648.00
Special Nurses	1,219.78	1,014.59
Orderlies	3,891.76	4,520.39
Ward Maids	987.47	874.67
X-Ray Dept.	1,237.81	1,187.34
Pathological Laboratory	1,705.00	1,705.00
Store	45.00	.....
Housekeeping and Kitchen Wages	7,348.90	7,478.08
Laundry	2,701.10	2,720.86
Maintenance, Property and Plant	6,049.96	5,293.09
Attendant Nurses	4,649.64	5,480.75
Pupil Nurses	114.01	.....
Total Salaries and Wages	$59,886.15	$59,616.66

HOSPITAL RECEIPTS	1915	1914
Board of Patients	$18,848.83	$13,549.94
X-Ray	516.60	412.00
Wasserman	363.95	424.00
Fixation Tests	2.00	4.00
Salvarsan	68.00	.....
Surgical Dressings	18.53	.....
Special Nurses	358.71	75.48
Optical	14,997.34	4,021.70
Apothecary	8,946.96	8,250.80
O. P. D. Door Fees	6,254.50	5,392.80
Throat Operations	1,638.75	1,184.00
Records	211.00	154.00
Certificates	74.50	.....
Telephone and Telegraph	71.89	39.12
Interest	67.65	39.50
Stamps	12.07	.....
Grease and Bones	112.52	.....
Miscellaneous	1,023.83	502.97
TOTAL HOSPITAL RECEIPTS	$53,587.63	$34,050.31
Cash on hand Oct. 1, 1915, $55.15 Cash on hand Oct. 1, 1914, .00	55.15	00
FROM TREASURER	88,864.05	99,146.90
Total Receipts	$142,506.83	$133,197.21

OPERATING EXPENSES	1915	1914
SUPPLIES		
General Administration Expenses	$5,121.26	$4,757.66
Apparatus and Instruments	3,122.12	2,375.50
Medical and Surgical Supplies	11,535.72	12,641.31
Wasserman Tests	395.50	872.00
X-Ray	398.06	507.75
Housekeeping and Kitchen Supplies	7,529.35	4,471.34
Laundry	1,065.82	2,415.38
Meat, Poultry and Fish	8,591.90	9,288.80
Fruit and Vegetables	2,335.22	2,350.40
Bread and Flour	1,318.70	1,085.23
Milk and Cream	4,733.16	3,959.15
Groceries	4,562.63	3,839.01
Butter and Eggs	2,952.19	3,140.48
Gas	198.64	530.08
Electric Lighting, Nurses' Home	951.60	987.72
Heat, Light and Power, Hospital Buildings	9,999.99	10,000.01
Ice	1,218.91	1,525.36
Fuel, Hospital Buildings	609.50	550.13
Fuel, Nurses' Home	854.14	871.39
Water, Hospital Buildings	1,197.60	1,742.40
Water, Nurses' Home	160.50	218.00
Maintenance, Property and Plant	6,117.76	4,850.72
Refunds	447.67	.....
Miscellaneous	115.38	49.98
Optical	7,032.21	550.75
Total Supplies	$82,565.53	$73,580.55

SUMMARY	1915	1914
OPERATING EXPENSES		
Salaries and Wages	$59,886.15	$59,616.66
Supplies	82,565.53	73,580.55
TOTAL EXPENSES	$142,451.68	$133,197.21
TOTAL HOSPITAL RECEIPTS	$53,587.63	$34,050.31
Necessary to Balance Account	88,864.05	99,146.90
Total	$142,451.68	$133,197.21

Special Report on the Work of the Gardner Building

During the past year 185 cases were treated in the special wards of the Gardner Building. Of these there were 59 cases of gonorrheal ophthalmia; 6 occurring in adults, 3 in children, and 50 in infants soon after birth. There were 116 cases of purulent ophthalmia, non-gonorrheal; 4 of these were in adults, 16 in children, and 96 in infants. At the time of entrance the cornea was involved in 39 cases of gonorrhea, of which 2 were adults, 3 children, and 34 infants. The cornea became involved in but 1 after admission, this one being a child.

Saemisch's operation was performed three times.

One case of specific iritis with active secondary lesion of the disease was treated. There were also 2 cases of trachoma, 5 cases of phlyctenular conjunctivitis, 1 dacryoadenitis, and 1 abscess of lid.

Twenty-one cases were transferred to the Gardner Building for measles, scarlet fever, pertussis, erysipelas, and other infectious diseases which manifested themselves in the general wards of the hospital.

A Comparative Report of the Work of the Infirmary for the Last Ten Years

Report of the House and Out-Patient departments from Sept. 30, 1906, to Oct. 1, 1915, showing the yearly change in the number of new patients and number of visits in each department.

Year	*House Patients*		*Out-Patients*				*Total*
	Ophthalmic	*Aural*	*Ophthalmic New*	*Aural New*	*Ophthalmic Old*	*Aural Old*	
1906	1,611	1,305	23,353	8,213	28,503	25,546	88,531
1907	1,628	1,578	24,012	8,919	29,835	25,295	91,267
1908	1,524	1,645	21,113	9,449	25,202	22,729	81,662
1909	1,396	1,719	19,375	9,128	20,153	18,398	70,169
1910	1,646	1,910	19,542	9,364	18,508	16,695	67,665
1911	1,700	1,749	20,408	9,467	17,273	14,493	65,090
1912	1,646	1,874	19,265	9,182	16,412	13,396	61,775
1913	1,756	1,896	19,853	10,159	15,319	12,731	61,714
1914	1,805	1,825	18,734	9,942	15,840	14,256	62,402
1915	1,794	1,852	18,689	9,837	20,611	18,489	71,272

Yours very respectfully,

FREDERIC A. WASHBURN,
Superintendent.

Post-Graduate Training School

THE Post-Graduate Training School for Nurses, established by the Trustees of the Massachusetts Charitable Eye and Ear Infirmary, is now in its 21st year. The ambition of the School is to so train a group of women in the nursing care of the eye, ear, nose and throat that it may become one of the great factors in the conservation of sight and hearing. They should accomplish this not only by the care given the patient, but by their ability to disseminate knowledge as Social Service Workers, Public Health Nurses, School Nurses, Head Nurses in other hospitals, and as workers in many activities to assist in teaching the public what may be done to retain the faculties of sight and hearing.

The students have come from almost all countries and after graduating have left Boston to take positions and carry the benefit of their training far from the Infirmary.

Up to the present year there have been 345 graduates.

In the past year 31 graduates and pupil nurses were entered, 15 diplomas were awarded, 9 students are still in training, 6 students did not graduate. There were 46 applications. There were 70 inquiries.

There have been 150 lectures, classes and demonstrations given by the Visiting Staff, House Staff, Social Service Department, the Assistant Superintendent of Nurses and the Superintendent of Nurses. The subjects covered were Anatomy and Physiology of the Eye, Ear, Nose and Throat; Clinical Diseases and Surgery of the same; Refraction; Aural and Ophthalmic Nursing; Materia Medica of the Formulary, and Bacteriology. Special lectures were given on Contagious Diseases, Teaching the Blind and Deaf, Infant's Feeding and the Nurse as a Social Worker. Special and individual instruction was given in Etherizing by the Consultant Anæsthetist.

NURSES' HOME

Opened August 5, 1909

Special instruction was also given in the Operating Rooms, in preparing Infants' Feeding and in Social Service Work.

Demonstrations and practical talks to those desiring the same were given on Hospital Management. The opportunity to act as Heads of Departments has been given to those intending to make hospital work their specialty. The practical details of executive positions and the teaching of pupils in class have been taught.

One of the important steps forward which has been made is that of giving daily bedside instruction by a Special Instructor. At present about 4 hours per day are given; it is hoped that this will be materially increased in a short time.

New textbooks, appliances, etc., have been added, and a thoroughly equipped classroom is being arranged.

An important development is the successful affiliation with other Training Schools of Nurses. During the past year students from the Massachusetts General Hospital have taken a sixty days' course, and negotiations are pending that probably will add to the list other representative schools.

Arrangements are made for the students to profit by the many educational advantages of the city.

The entire staff of nurses are indebted for many courtesies. Mrs. Frederic A. Washburn provided a victrola and a number of excellent records for almost the entire year.

Mrs. C. P. Russell provided current novels and other reading matter. Several evenings of music were given by the personal friends of the nurses.

Harvey Clap & Co. sent presents for their Christmas Tree.

Arrangements are being made by the Ladies' Visiting Committee for various amusements and entertainments during the winter.

Books, magazines and the various comforts of the Nurses' Home (including the joy of the view from its windows) provided by the Trustees continue to be greatly appreciated.

The Superintendent of Nurses wishes to take this opportunity to express the appreciation and thanks of the nursing staff for

the many kindnesses shown them, and especially to the Visiting Surgeons and Interns who have prepared and given many lectures and demonstrations.

MARY COONAHAN, R.N.
Superintendent of Nurses.

Report of Social Service

DURING the year the Social Service Department in common with other departments has been undergoing reorganization in an effort to correlate more effectively the work of the Eye and Ear Infirmary and the Massachusetts General Hospital. In June the Chief of Social Service of the Massachusetts General Hospital was made also Head Worker of the Social Service Department of the Infirmary, in an effort to place the social resources of the two institutions more effectively at the service of the many patients who need the special medical and social attention of both.

During the past year 1070 patients were referred to the Social Service Department. Their ages range as follows:

Under 2 months	149
2 months to 1 year	65
1 year to 6 years	332
6 years to 14 years	228
14 years to 20 years	65
20 years to 40 years	114
Over 40 years	89
	1,042
Not noted	28
Total	1,070

The large number of children is significant. Most of these children are suffering from eye diseases that indicate faulty hygiene or undermining physical conditions. Successful treatment of the eyes often necessitates the services not only of the Infirmary's skilled physicians but also of the physician of the Children's Medical Clinic at the Massachusetts General Hospital. Coördinated social service becomes an important element in

the treatment of such cases, that the doctor's efforts may be adequately supplemented.

During the eight years that the Social Service Department has been in existence very special attention has been given to the babies with Ophthalmia Neonatorum in the Gardner Ward, where the skillful care of the doctors and nurses has saved the sight of hundreds of babies. The Social Worker's part in this work is well known to those who have read the earlier reports of the Department. This last year 110 babies have been under the supervision of the Social Worker. An effort to supply these babies with their mother's milk during their stay in the Hospital has succeeded in providing breast milk feeding for 6 babies and partial breast feeding for 50 more.

During the last four months few changes have been made in the activities of the Department. A study has been made of the previous work and present status of the Department to see along what lines the most helpful development might be anticipated. A residence catalogue of all patients who have come under the supervision of the Department has been made, so that we could in our work with patients coöperate with and strengthen local nursing and medical-social agencies, such as the Visiting Nursing Association, school nurses, and tuberculosis nurses.

During the last eight years the Social Service Department has been interested in 7721 patients. Their residences range as follows:

MASSACHUSETTS:		
Greater Boston		4,008
Outside Boston within 10-mile radius	2,255	
10 to 20 miles	484	
20 to 30 miles	452	
30 to 40 miles	295	
Western Massachusetts	97	
Cape Cod	31	
In Massachusetts outside Boston		3,614
Total		7,622

Outside Massachusetts:		
New Hampshire	51	
Vermont	7	
Rhode Island	12	
Connecticut	6	
New York	4	
Maine	10	
Canada	6	
Other States	3	99
Total		7,721

The 3,614 patients in Massachusetts outside of Boston come from 183 different cities and towns. The 99 from outside the State come from different places. Since the number of patients referred to Social Service for supervision is only about 5 per cent of the total number of new patients, these figures do not more than indicate the widespread usefulness of the Infirmary. If the Social Service Department is to be an instrument of the institution, reaching out into the community in the interest of hygiene instruction, if it is to bring to the social complications of the patients the available agencies and individuals who are prepared to serve those in need, if it is to help in keeping under constant and effective treatment patients whom the doctors feel should return, it is then of primary importance to organize the social work of our department in relation to the public health activities already existing in the localities from which our patients come. The Department is now concerned with making such an organization of effort more stable and effective.

In all our efforts the State Commission for the Blind has been, as in previous years, most cordially helpful and suggestive.

The Lady Visitors have generously contributed the salary for a special social worker for ward patients. Several plans are under way whereby in coöperation with the Lady Visitors, and with the most helpful suggestions of Miss Coonahan, we may help to make the stay of the patients less tedious and thereby promote contentment in the wards, both factors contributing to the recovery of the patients.

IDA M. CANNON,
Chief of Social Service.

Report of the Pathological Laboratory

DURING the past year an unusual number of interesting and instructive cases have been studied in this laboratory. Of these perhaps the most notable were three cases of syphilis of the eye, a case of glioma of the optic nerve, an unusual case of keratitis not hitherto examined pathologically, and a fatal aural case in which a hitherto undescribed micro-organism was recovered from the blood by Dr. Porter. A number of eyes upon which the newer operations for glaucoma had been performed were examined, and the effects of these operations determined. Several new cases of Parinaud's conjunctivitis were investigated and further observations made on the micro-organism of this disease, which was discovered here in 1913.

A new fixing fluid to prepare eyes for microscopic examination has been perfected, which thus far has given results superior to those obtained with any other fluid previously used.

The pathological specimens accumulated during the past fifteen years have been gone over for the purpose of preserving them more securely. They now form probably the most complete collection of pathological specimens of the eye extant, and are proving of great value for purposes of teaching and research.

FREDERICK H. VERHOEFF,
Pathologist.

Scientific Papers Published by the Surgical Staff during the Year 1915

"Scleral Puncture for Expulsive Sub-chorioidal Hemorrhage Following Sclerostomy. Scleral Puncture for Post-operative Separation of the Chorioid." By Frederick H. Verhoeff, M.D. *The Ophthalmic Record.* February, 1915.

"Histological Findings after Successful Sclerostomy." By Frederick H. Verhoeff, M.D. *Archives of Ophthalmology,* No. 2. 1915.

"Plasmona of the Lacrymal Sac." By Frederick H. Verhoeff, M.D., and George S. Derby, M.D. *Archives of Ophthalmology.* May, 1915.

"Rosacea Keratitis and Certain Other Forms of Marginal Keratitis, Neuropathic in Origin. Treatment by Pericorneal Neurotomy." *American Ophthalmological Transactions,* 1915. By Frederick H. Verhoeff, M.D.

"Diseases of the Retina. Congenital Anomalies of the Iris. Siderosis." *Reference Handbook of the Medical Sciences.* By Frederick H. Verhoeff, M.D.

"Some Aspects of Ophthalmia Neonatorum." Transactions of the Section on Ophthalmology of the American Medical Association, 1915. By George Derby, M.D.

"Brawny Scleritis with the Report of an Unusual Case." Transactions of the American Ophthalmological Society, 1915. By Frederick H. Verhoeff, M.D., and George S. Derby, M.D.

"New Light on the Theory of Accommodation, with Practical Applications." Transactions of the American Academy of Ophthalmology and Oto-Laryngology, 1914. By Walter B. Lancaster, M.D., and E. R. Williams, M.D.

"The Effect on the Accommodation of the Viscosity of the Lens." The Ophthalmoscope. March 1, 1915. By Walter B. Lancaster, M.D., and E. R. Williams, M.D.

"Stronger Eye Magnets." Transactions of the American Ophthalmological Society, 1915. By Walter B. Lancaster, M.D.

"Chronic Deafness." The present status of its treatment. Journal American Medical Association. August 21, 1915. By D. Harold Walker, M.D.

"An Operation for Draining the Lachrymal Sac and the Nasal Duct into the Unciform Fossa." The Laryngoscope. November, 1915. Vol. XXV, No. II. By Harris P. Mosher, M.D.

Report of the X-Ray Department

THE following cases have been examined in this Department:

Accessory sinuses:		
Sinusitis		101
Sphenoidal sinusitis	2	
Frontal sinus:		
Sinusitis	84	35
Foreign body	1	
Absence of	3	
Ethmoid:		
Sinusitis	58	8
Fronto-ethmoiditis	24	4
Antrum Highmore:		
Sinusitis	90	5
Pansinusitis	43	
Teeth		10
Wisdom impacted	4	3
unerupted	5	
Caries (alveolar) or abscess	11	
Diseased root in antrum	3	
Dentigenous cyst	1	
Mastoid:		
Mastoiditis, acute	170	24
chronic sclerosed	77	
chronic sclerosed with cholesteotome	12	
recurrent	20	1
Fracture	2	
Bullet wound of	1	
Otitis externa diffusa	7	
Atrosia external auditory canal	1	1
Skull:		
Sella turcica, enlargement of	5	7
enlargement of, with acromegaly	1	
Fractures:		
Frontal	1	
Malar	1	
Maxilla, superior	1	
Parietal and squamous temporal	1	2

Cranial base	1	1
Frontal bone; foreign body	1	1
specific periostitis	2	
specific osteitis	1	
Cranial base; periostitis	1	
Cerebral tumor	1	
abscess	2	
abscess; outlined in bismuth	1	
Larynx:		
Adductor paralysis (aortic aneurism)	1	1
Foreign body in eye	26	85
sclera (vitreous surface)	4	
optic nerve	1	
orbit	2	
orbit (double perforation)	10	
lens	1	
brow	3	
lid	2	
nose	1	
Orbit:		
Cellulitis	4	
Fracture	1	2
Periostitis, specific	2	
Tumor	5	
Lachrymal passages, outlined in thorium oxide	6	
outlined in argyrol	2	
Enlarged bronchial glands	1	1
Unclassified	11	
	733	292
Total		1,025
Treatment cases		34

WILLIAM LIEBMAN, M.D.,
Roentgenologist.

Report of Ophthalmic Department

Diseases of House Patients

Conjunctiva

Conjunctivitis:	
acute	3
chronic	2
follicular	3
gonorrheal:	
in adults	6
in children	3
in infants	50
membranous	1
phlyctenular	10
purulent:	
in adults	4
in children	16
in infants	96
trachomatous	23
with pannus	6
herpetic	1
semphigus	1
tubercular	1
Dermoid cyst	3
Pterygium	17
Symblepharon	1
Total	247

Cornea

Abscess	1
Keratitis:	
acne rosacea	1
dentritic	4
interstitial	53
marginal	2
neuropathic	14
phylyctenular	44
serpiginous	3
simple	3
superficial	2
superficial punctate	4
traumatic	7
tuberculous	3
ulcerative	81
with hypopyon	41
with perforation	3
Kerato-conus	4
Kerato-iritis	5
Kerato-scleritis	3
Leucoma:	
adherent	19
inflamed	3
Staphyloma	8
	308

Glaucoma

Absolute	13
Acute	16
Chronic	36
Secondary	13
Simplex	9
	87

Globe and Orbit

Abscesses of orbit	4
Buphthalmos	6
Contracted orbit	8
Cyst of orbit	4
Disorganized globe	12
Foreign body in globe	37
Panophthalmitis	6
Phthisis bulbi	14
Sympathetic ophthalmia	5

Tumors:	
cyst	0
epithelioma	4
glioma	1
sarcoma	5
unclassified	7
	113

Injuries

Burns:	
conjunctiva	5
conjunctiva and cornea	12
conjunctiva and lids	3
cornea	4
Laceration of lids	8
Non-penetrating:	
globe	19
with hyphæmia	3
Penetrating:	
ciliary region	2
cornea	28
with foreign body	13
with prolapse of iris	17
cornea and iris	3
with foreign body	1
cornea and lens	10
cornea, iris, and lens	6
with foreign body	1
sclera	17
with foreign body	2
with prolapse of vitreous	3
rupture	11
Total	168

Iris, Choroid, and Ciliary Body

Blocked pupil	16
Irido-cyclitis	3
Iris bombé	2
Irido dialysis	1
Iritis:	
gonorrheal	1
rheumatic	7
simple	54
syphilitic	7
traumatic	2
tuberculous	2
Uveitis	7
Total	102

Lachrymal Apparatus

Abscess	1
Dacryo-adenitis	1
Dacryo-cystitis:	
acute	9
chronic	53
Obstruction	3
Total	67

Lens

Cataract:	
capsular	62
complicated	3
congenital	42
hypermature	6
immature	46
mature	225
pre-senile	4
traumatic	53
Dislocated lens:	
into anterior chamber	3
into posterior chamber	6
Total	450

Lids

Abscess	6
Adhesions	1
Coloboma congenital	1
Cyst	3
Ectropion	16
Epithelioma	1
Ptosis	3
congenital	9
Blepharitis	1
Blastomycosis	1
Trichiasis	4
Entropion	5
Total	51

Muscle and Nerve Affections

Amblyopia	1
Herpes zoster ophthalmicus	1
Paralysis of sixth nerve	2
Paralysis of third nerve	2
Strabismus:	
convergent	43
divergent	10
vertical	4
Total	63

Optic Nerve

Atrophy	19
Neuritis	12
	31

Retina

Chorio-retinitis	5
Neuro-retinitis	2
Separation of retina	15
Total	22

Miscellaneous

Episclevitis	2
Scleritis	2
Unclassified	1
Chancre sclera	1
Total	6

Summary

Conjunctiva	247
Cornea	307
Glaucoma	89
Globe and orbit	113
Injuries	168
Iris, choroid, and ciliary body	102
Lachrymal apparatus	67
Lens	450
Lids	51
Muscle and nerve affections	63
Optic nerve	31
Retina	22
Miscellaneous	6
Total	1,716

Ophthalmic Operations

Conjunctiva

Tumors of conjunctiva	6
Conjunctival flap	10
Pterygium	16
Stripping	13
Suturing	1
Total	46

Cornea

Corneal trephine	3
Cauterization	3
Paracentesis	4
Saemisch	19
Scraping	4
Total	33

Enucleations

Buphthalmos	2
Disorganized globe	12
Glaucoma absolute	13
Injury	18
Insertion of glass ball	9
Irido-cyclitis	1
Panophthalmitis	8
Phthisis bulbi	10
Staphyloma	4
Tumor of globe	6
Insertion of sponge	2
Total	85

Evisceration

Insertion of glass ball	0
Simple	2
Total	2

Iris

Iridectomy:	
anterior synechia	10
glaucoma	21
optical	38
preliminary	11
Iridotasis	3
Iridotomy	8
Prolapsed iris abscised	18
Total	109

Lachrymal Apparatus

Abscess evacuated	2
Agnew's operation	3
Extirpation of tear sac	48
Excision of gland	2
Cauterization of sac	2
Total	57

Lens

Capsulotomy	10
preliminary	3
Cataract extraction:	
in capsule with iridectomy	25
linear	8
simple	4
suction	4
with buttonhole of iris	2
with iridectomy	228
with Van Lint	1
Discission	165
Total	450

Lids

Abscess evacuated	1
Ectropion	11
Entropion	10
Extirpation of cyst	1
Plastic	26
Ptosis:	
Pagenstecher	4
Tumor excised	8
Wound sutured	4
Total	65

Miscellaneous

Advancement:	
superior rectus	2
inferior rectus	1
external rectus	34
internal rectus	5
Tenotomy:	
superior rectus	3
external rectus	3
inferior rectus	5
internal rectus	39
Total	92

Sclera

Sclerotomy	6
Sclerotomy with iridectomy	23
Suturing	1
Total	30

Miscellaneous

Exenteration	1
Extraction of intra-ocular steel	39
Neo-salvarsan	3
Salvarsan	4
Total	47

Total number of operations . 1,016

Diseases of Out-Patients

Refraction

Astigmatism	3,199
Hypermetropia	3,764
Myopia	476
Presbyopia	174
Emmetropia	120
Total	7,733

Lids

Abscess of	86
Blepharitis:	
squamous	400
ulcerative	102
Dermatitis of	12
Eczema of	44
Ectropion of	26
cicatricial	3
senile	5
Edema of	69
Entropion	20
senile	4
spasmodic	2
congenital	1
Hordeolum	302
external	3
internal	12
Phthiriasis palpebrarum	12
Distichiasis	3
Trichiasis	18
Total	1,124

Lachrymal Apparatus

Dacryo-cystitis:	
acute	76
chronic	43
Epiphora	134
Fistula of lachrymal duct	5
Mucocele	47
Occlusion of puncta	45
Stenosis of lachrymal duct	73
Abscess of lachrymal duct	4
Total	427

Conjunctiva

Conjunctivitis:	
acute	1,760
subacute	260
chronic	546
eczematous	4
edema	4
follicular	64
gonorrheal:	
adult	64
children	27
ophthalmia neonatorum	37
herpetic	1
phlyctenular	221
trachomatous	53
with pannus	24
vernal	7
blepharo-	52
Lymphoid hypertrophy of	7
Lymphangiectasis	4
Pterygium	98
Pinguecula	35
Symblepharon	3
Total	3,271

Cornea

Conical cornea	6
Keratitis	80
bullous	4
dendritic	11
ex acne rosacea	2
fascicular	5
herpetic	2
interstitial	82
marginal	44
neuropathic	32
phlyctenular	264
punctate	9
rodent ulcer	1
serpiginous	1
superficial	30
ulcerative	261

with hypopion	30
with pannus	4
Leucoma of	69
adherent	13
inflamed	6
Macula of	110
Nebula of	97
Staphyloma	20
Phlyctenular kerato-conjunctivitis	20
Kerato-iritis	12
Total	1,215

Sclera

Episcleritis	32
Scleritis	19
Sclero-keratitis	6
Total	57

Lens

Aphakia	5
Cataract	10
capsular	16
congenital	32
complicated	3
cortical:	
posterior	2
hypermature	6
immature	111
incipient	200
lamellar	1
mature	125
peri-nuclear	1
polar:	
posterior	2
pre-senile	1
senile	29
Total	544

Uveal Tract

Iris:	
coloboma	7
hyperæmia	1
Iritis	215
recurrent	4
rheumatic	16
syphilitic	13
Excluded pupil	2
Occluded pupil	6
Irido-cyclitis	3
Choroid:	
atrophy of	9
coloboma of	1
Choroiditis	6
central	3
disseminated	2
high myopic	3
Chorio-retinitis	27
Uveitis	22
syphilitic	5
Total	345

Retina

Amaurotic family idiocy	2
Arterio-sclerosis of retinal vessels	20
Obstruction of retinal artery	2
Obstruction of retinal vein	3
Edema of	6
Retinitis	8
albuminuric	14
hemorrhagic	16
pigmentosa	7
proliferans	2
Separation of	34
Total	114

Vitreous

Hemorrhage into	1
Opacities of	101
Muscæ volitantes	8
Webs of	5
Total	115

Optic Nerve

Atrophy of	58
Choked disc	1
Neuro-retinitis	14
hemorrhagic	1

Optic neuritis	11
Retrobulbar neuritis	8
Toxic amblyopia	36
Tobacco amblyopia	5
Congenital amblyopia	6
Total	140

Glaucoma

Glaucoma	20
absolute	13
acute	16
chronic	12
hemorrhagic	1
secondary	5
simplex	5
subacute	1
Buphthalmos	5
Total	78

Eyeball

Anophthalmos	9
Disorganized globe	57
Exophthalmos	9
Lagophthalmos	1
Panophthalmos	2
Microphthalmos	5
Total	83

Orbit

Abscess of	1
Cellulitis	5
Periostitis	1
Contracted orbit	4
Total	11

Disturbances of Motility

Nystagmus	30
Paralysis of:	
third nerve	24
fourth nerve	2
sixth nerve	14
seventh nerve	3
Esophoria	9
Exophoria	14
Strabismus:	
alternating convergent	25
convergent	417
divergent	113
Artificial mydriasis	4
Ptosis	28
congenital	7
Total	690

Tumors

Conjunctiva:	
cyst	12
granuloma	4
Intraocular:	
tumor	3
Lids:	
angioma	3
epithelioma	12
chalazion	513
granuloma	3
milium	15
papilloma	2
verruca	15
sebaceous cyst	20
xanthalasma	2
Orbit:	
sebaceous cyst	2
tumor	2
Total	608

Unclassified Conditions

Brow abscess	5
Facial paralysis	11
Frontal sinusitis	20
Herpes zoster ophthalmicus	5
Micro-cephalus	1
Supra-orbital neuralgia	2
Total	44

Injuries

Conjunctiva:	
burn of	61
ecchymosis	178

foreign body in	112
hyperemia	13
laceration	43
Total	407
Cornea:	
abrasion of	221
burn of	55
cut of	27
foreign body in	1,294
Total	1,597
Lids:	
burn of	34
cut of	52
ecchymosis	44
emphysema	4
foreign body in	106
Total	240
Eyeball:	
contusion of	65
foreign body in globe	15
irritation from foreign body	74
rupture of globe	9
Total	163
Perforating wound of cornea	30
Perforating wound of cornea and lens	17
Perforating wound of cornea with prolapse of iris	17
Perforating wound of cornea with foreign body in globe	1
Total	65
Perforating wound of ciliary region	2
Perforating wound of sclera	7
Rupture of sclera	6
Total	15

Non-perforating Injuries

Traumatic cataract	52
Traumatic commotio retina	1
Traumatic-conjunctivitis	49
Traumatic dislocation of lens	3
Traumatic irido-donesis	2
Traumatic iritis	14
Traumatic keratitis	56
Total	177

Miscellaneous

Visions not refracted	1,056
Referred to other institutions	368
Referred to aural department	376
Unfit patients	290
Total	2,090

Summary

Refraction	7,733
Lids	1,124
Lachrymal apparatus	427
Conjunctiva	3,271
Cornea	1,215
Sclera	57
Lens	544
Uveal tract	345
Retina	114
Vitreous	115
Optic nerve	140
Glaucoma	78
Eyeball	83
Orbit	11
Disturbances of motility	690
Tumors	608
Unclassified conditions	44
Injuries	2,664
Miscellaneous	2,090
Total	21,337

Out-Patient Operations

Abscess of lid	44	Foreign body removed from cornea	1,294
Abscess of brow	3	Foreign body removed from lid	106
Agnew's operation	3	Hordeolum	65
Chalazion	234	Pterygium	2
Cut of lids sutured	2	Sebaceous cysts removed	4
Dacryo-cystitis	15		
Ectropion	1	Total	1,886
Entropion	1		
Foreign body removed from conjunctiva	112		

Report of Aural Department

Diseases of House Patients

DISEASES OF EAR

General

Deaf-mutism, congenital	2
Otalgia	2

Auricle

Branchial cyst, preauricular	1
Hematoma (Othematoma)	1
Perichondritis	2

External Auditory Canal

Atresia	4
Foreign body	1
Exostosis of osseous meatus	2
Otitis externa:	
circumscribed acute	23
diffuse acute	11

Middle Ear and Mastoid

Bullet wound of external meatus and middle ear	1
Otitis media:	
non-suppurative chronic	2
suppurative acute	104
with acute suppurative mastoiditis	319
with infective sinus thrombosis	5
with epidural abscess	4
with purulent leptomeningitis	1
with cerebral abscess	1
with facial paralysis	6
with Bezold abscess	2
traumatic	1
complicated with diabetes melitis	2
complicated with septic pneumonia	1

Suppurative chronic	154
with acute diffuse suppurative labyrinthitis	1
with acute circumscribed suppurative labyrinthitis	6
with cerebellar abscess	1
with purulent leptomeningitis	0
with infection of lateral sinus	1
results of	4
atresia of radical cavity	1
old radical. Hysteria	1
otosclerosis	2

Internal Ear

Hemorrhage	1
Hyperemia, acute	1
Labyrinthitis:	
diffuse serous	4

DISEASES OF NOSE AND NASO-PHARYNX

Deformity of nose, traumatic	5
Epistaxis	1
Fracture of nasal bones	3
Septum:	
deviation	76
Ozena (Atrophic Rhinitis)	5
Rhinitis:	
syphilitic	1
chronic hypertrophic	1
Fibroma of nose	1
Hypertrophy of bullous middle turbinate	1
Synechia of nose	1
Sinusitis:	
pansinusitis	1
pansinusitis with orbital cellulitis	1
frontal sinusitis, acute	14
frontal sinusitis, chronic	7
ethmoiditis, acute (with antrum involved)	5
ethmoiditis, chronic	17
ethmoiditis, syphilitic	1
sphenoiditis, chronic	2
empyema of antrum (of Highmore)	3
syphilitic sinusitis	1
Carcinoma of antrum	1
Malignant tumor of ethmoid	1
Carcinoma of orbit, ethmoids, and antrum	1
Abscess of cheek	1
Peritonsillar abscess	8

Tonsillitis:	
acute follicular	8
Tonsils and adenoids	115
Adenoids	159
Retropharyngeal abscess	1
Carcinoma of larynx	3
Epithelioma of vocal cord	1
Papilloma of larynx	1
Acute edema of pharynx and larynx, due to brown-tail moth hairs	1
Palato-pharyngeal adhesion (post-operative)	1

MISCELLANEOUS

Carcinoma of œsophagus	1
Leukoplakia buccalis	2
Erysipelas	2
Tic-douloureux	1
Fistula of neck	1
Abscess of gabella (foreign body)	1
Cervical abscess	2
Cystic tumor of face	1
Thyro-glossal cyst	1
Epulis of mandible	1
Brain tumor	1
Brain tumor (?)	1
Purulent leptomeningitis (pneumococcus)	1
Broncho-pneumonia	1
Parotid abscess	1
Diabetes mellitus	2
Eczema	1
Epilepsy	1
Chronic nephritis	1
Measles	2
Scarlet fever	3
Diphtheria	1
Post-operative hemorrhage, nose	1
Post-operative hemorrhage, adenoid	1
Chronic dacryocystitis	2
Pulmonary tuberculosis	1
No diagnosis	6

Aural Operations

Auricle

Abscess of lobe incised	11
Cyst excised	3
Othematoma incised	1
Perichondritis	2
Pre-auricular abscess incised	1

Meatus

Abscess (otitis external diffusive) incised	136
Circumscribed abscess (otitis external circumscripta) incised	38
Foreign body removed	9
Exostosis removed	2
Atresia	1

Tympanum

Membrana tympani incised	682
Carious ossicles removed	15
Polyp removed	52

Mastoid Region

Abscess, post-aural incised	1
Abscess, cervical incised	7
Cervical glands incised	4
Mastoid, simple	355
Mastoid, simple with adenoidectomy	32
Mastoid, simple with ligation of jugular	23
Mastoid, simple cerebellar abscess	1
Mastoid, simple with cerebral exploration	3
Mastoid, simple Bezold's abscess	3
Radical mastoid	53
Radical mastoid with primary skin graft	12
Mastoid operation; lumbar puncture and subtemporal decompression	6
Skin graft	25
Plastic	2

NOSE, THROAT AND PHARYNX

Abscess of septum incised	2
Turbinate removed	41
Polypus removed	2

Adenoids removed	183
Adenoids and tonsils removed	600
Tonsils removed	32
Submucous resection of septum	142
Submucous resection of septum with irrigation of antrum	1
Submucous resection of septum with rib resection	2
External nose operation, plastic	3
Fracture of septum, reduced	7
Fracture of nasal bones	1
Plastic, external deformity of nose	2
Fibroma removed	1
Synechia cut	1
Frontal sinus operation	16
Frontal sinus and antrum operation	4
Killian operation	1
Exenteration of ethmoids and sphenoid	22
Antrum opened	27
Radical antrum	1
Exenteration of orbit (enucleation) ethmoids and antrum	1
Peritonsillar abscess incised	19
Intranasal tear sac	3
Laryngoscopy	2
Tracheotomy	2

MISCELLANEOUS

Exploration of cavernous sinus, orbital route	1
Extirpation, thyro-glossal cyst	1
Curettage, branchial cyst	1
Abscess of face incised	1
Knee, incision of, drainage	1
Leg, incision of, drainage	1
Retropharyngeal abscess incised	2
Anastomosis of hypoglossal and facial nerve	1
Salvarsan	24
Lumbar puncture	17

Diseases of Out-Patients

I. DISEASES OF THE EXTERNAL EAR

I. Auricle

a. Inflammations

	R.	B.	L.
Abscess	2	1	4
Abscess of lobe	3	1	5
Dermatitis	3	0	7
Pre-auricular abscess	2	0	4
Eczema	60	52	24
Erysipelas	9	0	9
Intertrigo	0	5	6
Perichondritis	8	0	9
Impetigo	5	0	8
Ulceration	5	0	3
Post-aural abscess	23	2	9
Cellulitis of auricle	1	0	0

b. Deformities

Microtia with atresia canal	1	0	4

c. Neoplasms

Cyst of auricle	7	0	9
Cyst of lobe	6	2	8
Epithelioma	1	0	0

d. Trauma

Congelatio	1	0	0

II. Meatus

Cerumen	331	767	460
Abscess	11	0	16
Eczema	20	10	39
Exostosis	12	2	19
Acute diffuse inflammation	83	18	99
Acute diffuse inflammation with cervical adenitis	10	2	0
Chronic diffuse inflammation	2	0	1
Acute circumscribed inflammation	160	3	70
Retracted membrane	32	29	9
Thickened membrane	1	0	0
Ruptured membrane	5	0	0
Foreign body	17	3	71

II. DISEASES OF THE DRUM MEMBRANE

	R.	B.	L.
Trauma	0	5	0
Myringitis	5	0	7

III. DISEASES OF THE MIDDLE EAR

a. Acute Secretory Catarrhal Inflammation

Mucous	171	98	166
With adenoids	83	101	96

b. Chronic Secretory Catarrhal Inflammation

Mucous	275	734	142
With adenoids	104	42	50
With facial paralysis	0	1	0
With labyrinthine disease	2	0	1
Effectus	11	13	10

c. Adhesive Catarrhal Inflammation

Secretory	47	69	53
Secretory with labyrinthine disease	7	0	3

d. Acute Inflammation

Simple	486	126	256
With adenoids	49	50	75
With mastoiditis	7	1	5
With post-aural abscess	27	0	14

e. Acute Suppurative Inflammation

Simple	320	186	416
With mastoiditis	88	12	124
With post-aural abscess	36	0	40
With facial paralysis and Bezold abscess	4	0	3
With sub-periosteal abscess	1	0	3
With carious ossicles and tuberculosis	1	0	0

f. Chronic Suppurative Inflammation

Simple	436	342	401
With mastoiditis	26	5	57
With polypus in the tympanum	21	0	13
Effectus	144	166	151

IV. NEUROSIS OF THE MIDDLE EAR

Otalgia from teeth	76	88	3

V. DISEASES OF THE LABYRINTH

	R.	B.	L.
Labyrinthitis	20	6	19
Anæmia	2	0	0
Concussion	1	0	1
Hemorrhage	3	0	0
Otosclerosis	3	15	2

MISCELLANEOUS

Adenoids and tonsils	0	1213	0
Adenoids	0	540	0
Tonsils	0	103	0
Hypertrophic rhinitis	0	35	0
Atrophic rhinitis	0	76	0
Purulent rhinitis	0	48	0
Vaso-motor rhinitis	0	12	0
Acute rhinitis	0	35	0
Chronic rhinitis	0	129	0
Specific rhinitis	0	1	0
Peritonsillar abscess	9	1	12
Polyp (nose)	9	23	10
Foreign body (nose)	0	6	0
Foreign body (throat)	0	14	0
Deaf-mutism	0	13	0
Frontal sinusitis (acute)	0	69	0
Frontal sinusitis (chronic)	0	4	0
Frontal sinus and antrum (acute)	0	1	0
Nerve deafness	0	4	0
Ethmoiditis	0	42	0
Ethmoiditis with polyp	0	3	0
Acute pharyngitis	0	26	0
Chronic pharyngitis	0	46	0
Fracture of nasal bones	0	4	0
Facial paralysis	0	7	0
Facial erysipelas	0	4	0
Erysipelas (scalp)	0	3	0
Erysipelas (nose)	0	3	0
Sarcoma (nose)	0	1	0
Hypertrophy of turbinate	0	122	0
Adenitis	0	10	0
Deformity (nose)	0	5	0
Epistaxis	0	63	0
Eczema (nose)	0	8	0
Eczema (face)	0	9	0
Specific pharynx	0	3	0

	R.	B.	L.
Syphilis	0	18	0
Carcinoma larynx	0	1	0
Specific laryngitis	0	5	0
Cyst of turbinate	0	1	0
Laryngitis secondary	0	1	0
Laryngitis acute	0	13	0
Catarrh nasal	0	1	0
Furunculosis	0	8	0
Chronic tonsillitis	0	24	0
Salpingitis (Eustachian)	18	2	0
Abscess of forehead	0	2	0
Abscess of cerebellum	0	3	0
Abscess of tonsil	0	1	0
Cerebral abscess	0	1	0
Vertigo	0	2	0
Fracture of nose	0	8	0
Migraine	0	1	0
Pyorrhœa alveolaris	0	4	0
Caries of teeth	12	22	0
Perforation of septum	0	12	0
Deviated septum	0	520	0
Excoriation of septum	0	1	0
Septum, cartilaginous perforation	0	1	0
Insect bite over upper lid	0	1	0
No ear disease	0	295	0
No nose disease	0	11	0
No throat disease	0	5	0
Eloped	0	28	0
No diagnosis	0	237	0
Diagnosis deferred	0	26	0
Unfit patients	0	62	0

Form of a Bequest to the Infirmary

I give and bequeath to the Massachusetts Charitable Eye and Ear Infirmary of Boston, the sum of dollars, to be applied to the uses of said Infirmary.

U. HOLZER
BINDER
BOSTON, MASS.